CR-171 807

NASA

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

(NASA-CR-171807) AEROTHERMODYNAMIC DATA BASE Data File Contents Report, Jan. - Jun. 1984 (Chrysler Corp.) 424 p HC A18/MF A01 CSCL 01A

N84-32415

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SPACE SHUTTLE
AEROTHERMODYNAMIC DATA REPORT

Data ManAGEMENT SERVICES

HUNTSVILLE ELECTRONICS DIVISION CHRYSLER CORPORATION

July 10, 1984

DMS-DFR-2098

PHASE C

AEROTHERMODYNAMIC

DATA BASE

DATA FILE CONTENTS REPORT

JANUARY/JUNE 1984

Prepared under NASA Contract Number NAS9-16283

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1. INTRODUCTION

Space shuttle aerothermodynamic data, collected from a continuing series of wind tunnel tests, are permanently stored with the Data Management Services (DMS) system. Information pertaining to current baseline configuration definition is also stored. This report lists documentation of DMS processed data arranged sequentially and by space shuttle configuration.

Purpose of this report is to provide an up-to-date record of all applicable aerothermodynamic data collected, processed, or summarized during the space shuttle program. Tables are designed to provide survey information to the various space shuttle managerial and technical levels. Table 1-1 summarizes the contents and purposes of report sections.

Table 1-1. Summary of Data Base Records

Item	Contents	Purpose
Baseline configurations	Space shuttle configurations designated as reference or baseline	Current baseline configuration reference
Summary data reports	List of DMS reports presenting results of data analysis or refinements	Index of space shuttle aerothermo design data reports
Data file report digest	Compilation of space shuttle tests into operational status and basic configuration groups	Information arranged by vehicle on tests DMS processed or has in process
Wind tunnel test/DMS data processing summary	Table of space shuttle test data for which results have been incorporated into DMS data base	Reference of test data in DMS data base sequentially by data report number
Space shuttle facility wind tunnel summary	Summary of all space shuttle tests by facility	Information arranged by facility on tests DMS processed or has in process

2. BASELINE CONFIGURATION DESIGNATIONS

Configurations designated as baseline or reference configurations are in this report. Figure 2-1 shows the orbiter, figure 2-2 the launch vehicle, figure 2-3 the ET and SRB, and figure 2-4 the carrier.

3. SUMMARY DATA REPORTS

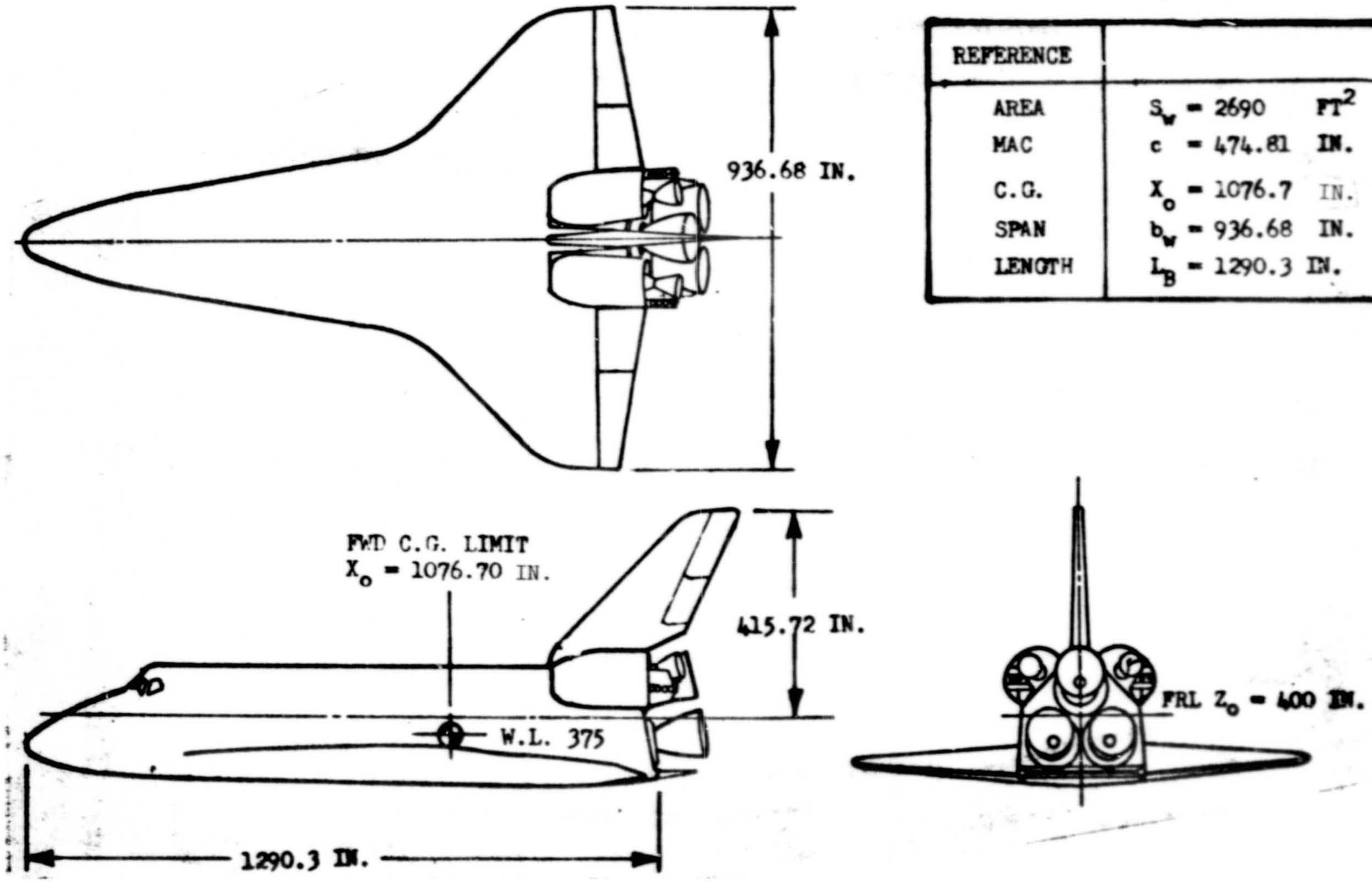
Summary data reports differentiate from data reports in that data reports present basic wind tunnel data as collected and summary reports contain data germane to a particular design application of the basic aerothermo test data. Summary reports range from basic data reports of edited or refined data to reports presenting gleanings from basic data reports.

The list of summary reports (table 3-1) contains DMS-generated documents.

4. DATA FILE REPORT DIGEST

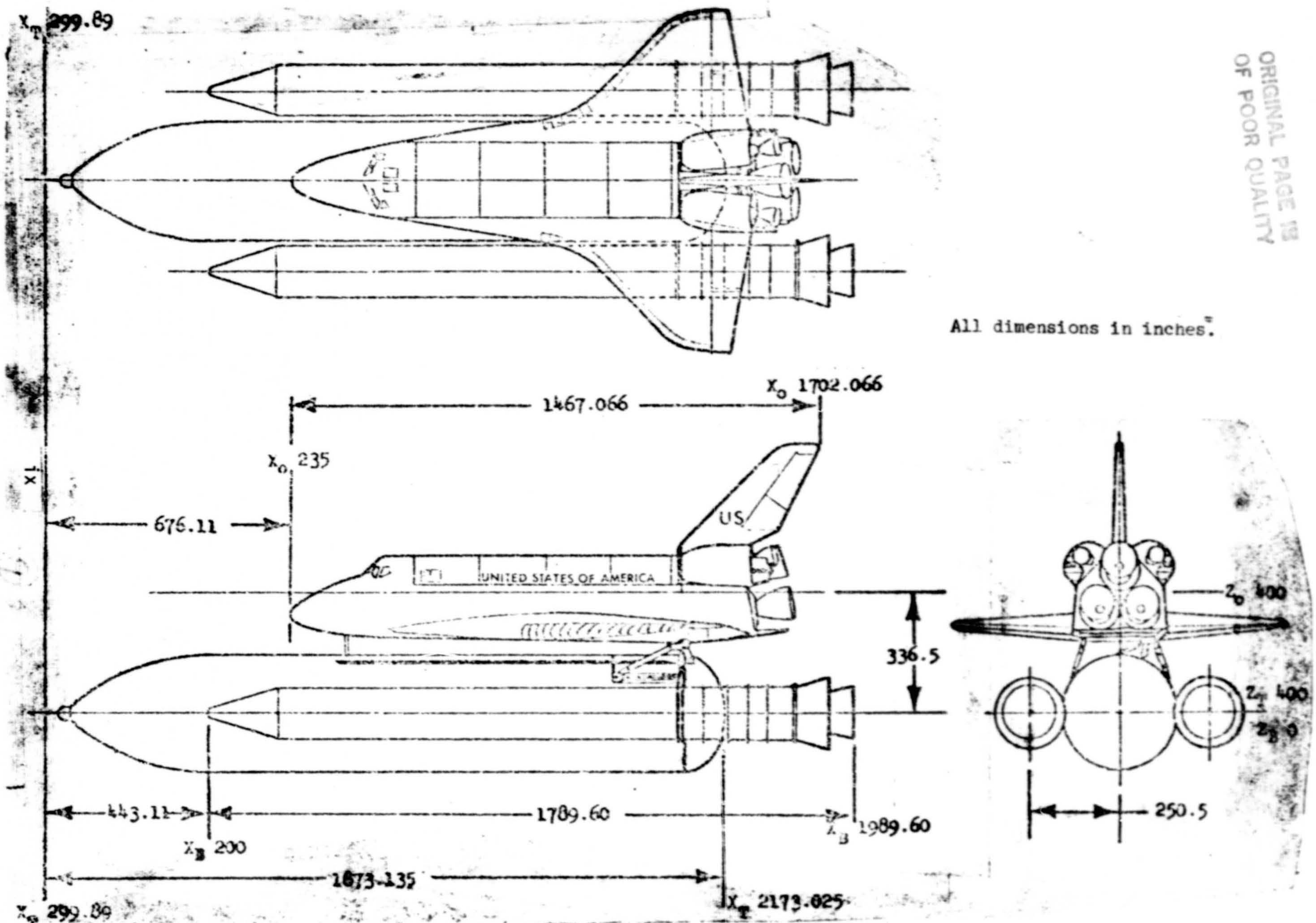
Data file digest (table 4-1) compiles all information in the DATAMAN system into three categories:

1) Recently published reports - current six-month period.
2) Tests in process
3) Published reports



REFERENCE	
AREA	S_w = 2690 FT^2
MAC	c = 474.81 IN.
C.G.	X_o = 1076.7 IN.
SPAN	b_w = 936.68 IN.
LENGTH	L_B = 1290.3 IN.

Figure 2-1. SSV Orbiter 5 Configuration Baseline



All dimensions in inches.

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Figure 2-2. Configuration 5 Launch Vehicle

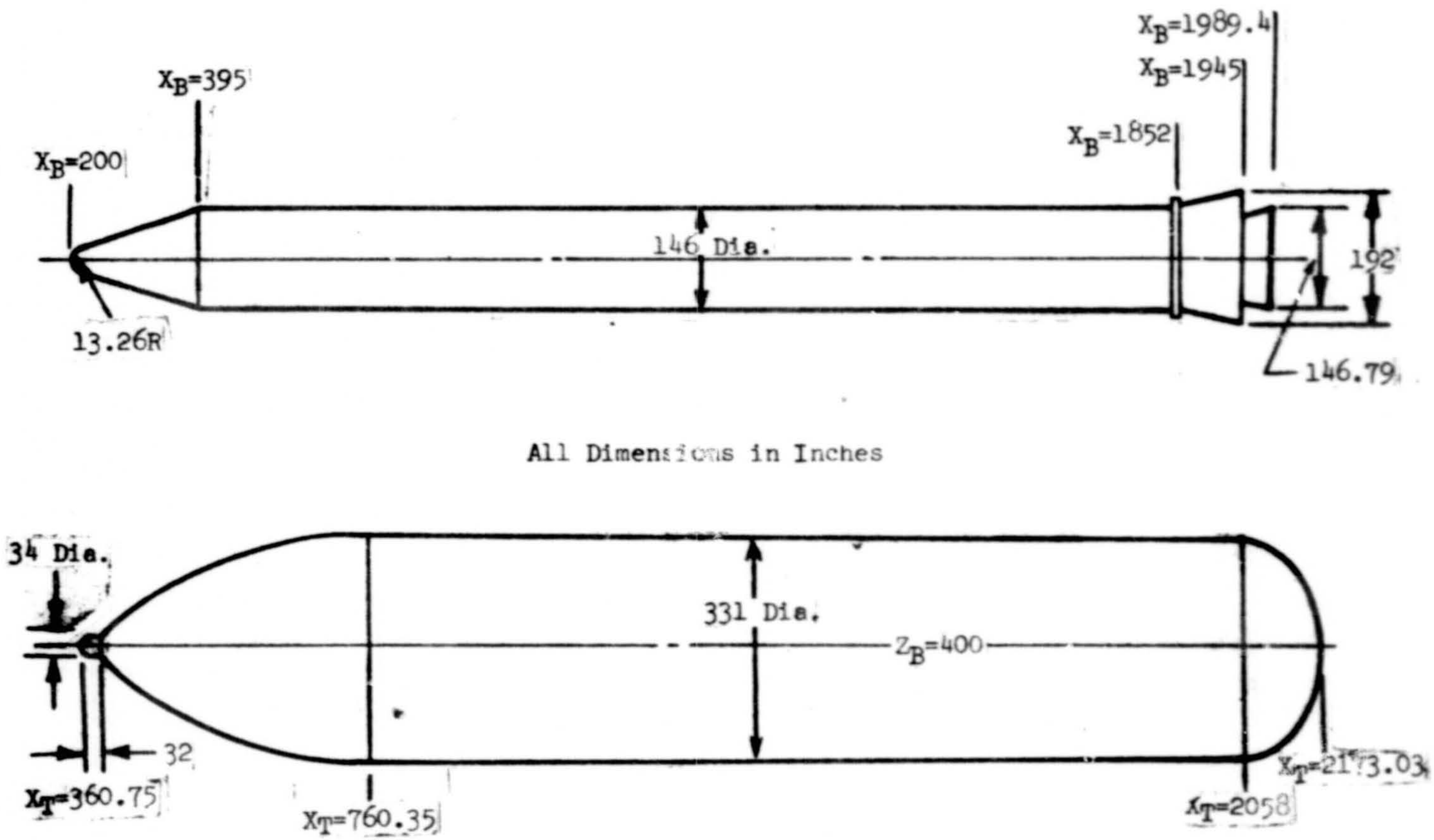

Figure 2-3. Configuration 5 External Tank and Solid Rocket Booster

REFERENCE DIMENSIONS (FS)

	ORBITER	747 CARRIER
WING AREA ~ Ft^2	2690	5500
MAC ($\bar{c}$) ~ INCHES	474.81	327.78
SPAN (b) ~ INCHES	936.68	2348.04
MOMENT REFERENCE CENTER	67.5% LB	25.0 % $\bar{C}$
F.S. ~ INCHES	1109.0	1339.9
W.P. ~ INCHES	375.0	190.8

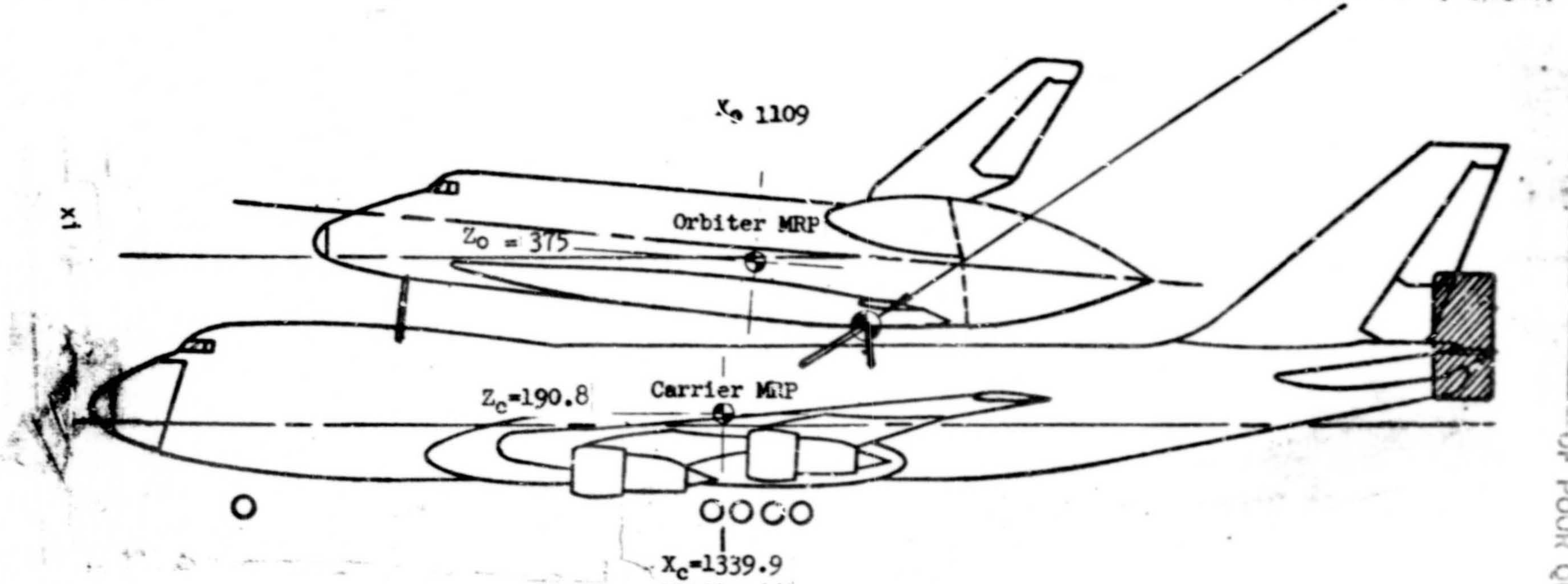

Figure 2-4. Orbiter/747 Flight Test Configuration

Each section is subdivided into five configuration categories:

1) Booster data
2) Orbiter data
3) Booster/orbiter data
4) External tank data
5) Carrier data

Information on each test is as follows:

1) DMS report number
2) NASA series number
3) NASA CR number
4) NASA TM X- number
5) Two-character test code
6) Configuration (specific)
7) Test number

5. WIND TUNNEL TEST/DATAMAN DATA PROCESSING SUMMARY

Space shuttle wind tunnel test data incorporated into the DATAMAN data base are listed by DMS report number in the processing summary (table 5-1). This summary collects test particulars so the reader can evaluate or categorize data. It contains the following information:

1) Test facility
2) Test identification
3) Configurations tested
4) Purpose of test
5) Type of test
6) Model scale

7) Test Mach number range

8) Testing agency

9) Cognizant test/DMS personnel

10) Basic publication numbers

6. SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

Numerous wind tunnel facilities test space shuttle configurations. Table 6-1 collects information on tests completed or in process, grouped by facility. It contains the following information:

1) Two-character test code

2) Facility

3) Tunnel

4) Test number

5, NASA series number

6) DATAMAN report number

TABLE 3-1. Summary Data Reports List

(No Data Available at Present)

TABLE 4-1.

Data File Report Digest

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2388	OH84A	157,676		MODEL 83-0 (0.04-SCALE)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-R4A	4E
2427	OH103B	167,675		MODEL 60-0; LINES VL70-000140C	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-V2C	4M
2465	OS55/57	167,674		81-0 HRSI TILE PANEL	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 464	AJ
2507	MA33A/B	167,683		ORBITER MODEL 106-0	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 510-1 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	AU
2513	OS313	167,678		MODEL 129-0	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF645	A3
2515	OS305-1/5	167,684		MODEL 125-0. AFRSI BONDED TO SUPPO RT PLATE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 562-1/5	A7

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2393 V-01	IH51A	167,679		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-02	IH51A	167,680		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-03	IH51A	167,681		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-04	IH51A	167,682		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2461	IH51D	167,677		MODEL 58-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 244	3N

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2188	LA39				LARC - UNITARY PLAN WIND TUNNEL - 1075	QY
2213	LA53 LA54				LARC - FREON TUNNEL - 220-237 20-INCH HYPERSONIC TUNNEL (MACH 6) - 456	HO
2220	LA52				LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 458	HN
2228	LA46A/B				LARC - UNITARY PLAN WIND TUNNEL - 1092/1117 1117	HG
2237	OA155			VEHICLE 5 ORBITER	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 114	J7
2256	LA68				LARC - 22-INCH HELIUM TUNNEL - 439	J8
2260	LA60B LA60C				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 715 8-FOOT TRANSONIC PRESSURE TUNNEL - 776	KB
2287	OS13				ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 166-1	NN

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2291	LA79				NSWC - TUNNEL 8A - 1275	JM
2292	LA36B				LARC - LOW-TURBULENCE PRESSURE TUNNEL - 214	JS
2339	OS32				ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 167-1	2C
2362	LA92				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 764	K1
2379	LA106				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 776	KC
2383	LA93				LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 130	K2
2394	LA109				LTV - HIGH SPEED WIND TUNNEL - 611	FR
2411	LA116				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 804	KM
2425	LA117				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 813	KQ
2441	LA127				LARC - LOW-TURBULENCE PRESSURE TUNNEL - 255	KU

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2442	LA128				LTV - HIGH SPEED WIND TUNNEL - 646	KY
2446	LA122				LARC - UNITARY PLAN WIND TUNNEL - 1270	KX
2447	OS52				ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 436-2	AB
2459 V-01	OA310A OA310B OA310C	167,685		AFRSI SSV PRESSURE-LOADS MODEL 84-0	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 587-1	A2
2459 V-02	OA310A OA310B OA310C	167,686		AFRSI SSV PRESSURE-LOADS MODEL 84-0	LERC - 8 BY 6-FOOT SUPERSONIC WIND TUNNEL - 046 /LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 074	A4
2484	LA144			OV102-SSME ON	LTV - HIGH SPEED WIND TUNNEL - 742	FS
2497	MA34			ORBITER FOREBODY	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 594	T4
2516	OS311	167,688		MODEL 127-0, AFRSI BONDED TO SUPPO RT PLATE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 562-2/5	A8

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2517	OS314A/B/C	167,689		AFRSI BLANKET PANELS FORM-FITTED O VER A TWO-DIMENSIONAL MODEL OF AN	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 582-1	A9

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2239	LA38B				LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 676	QX
2460	FA27				MSFC - 14-INCH TRISONIC WIND TUNNEL - 655	1Y
2476	IA190A IA190B				ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 411-1,2,3 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	3U
2479	IA600				MSFC - 14-INCH TRISONIC WIND TUNNEL - 658	6A
2514	FA301	167,687		LAUNCH VEHICLE WITH INTERSTAGE FAI RINGS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 692	A6

BOOSTER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2012	SA1F	120,090		SRB(PRR)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 554	79
2025	SA3F	128,767		142-INCH DIAMETER SRB WITH AND WIT HOUT STRAKES	MSFC - 14-INCH TRISONIC WIND TUNNEL - 565	80
2051	SA5F	128,774		BOOSTER MSFC MODEL NO.449	MSFC - 14-INCH TRISONIC WIND TUNNEL - 572	86
2087	SA10F	134,116		SRB WITH VARIED SHROUD LENGTHS AND FLARE ANGLES	MSFC - 14-INCH TRISONIC WIND TUNNEL - 578	91
2088	SA2FA SA2FB	134,[illegible]05		142-INCH SOLID ROCKET BOOSTER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 655 8-FOOT TRANSONIC PRESSURE TUNNEL - 662	PS
2111	SA26F	134,435		MODEL 449/CONF.NBRE1, NBRE1A, NBRE 1B, NBRE1S1ELT	MSFC - 14-INCH TRISONIC WIND TUNNEL - 590/595	95
2142	FA4	134,402		TITAN III C SRM	MSFC - 14-INCH TRISONIC WIND TUNNEL - 587	97
2150	SA25F	141,511		SRB	LARC - UNITARY PLAN WIND TUNNEL - 1087	H9
2161	SA6F	134,422		SRB-BODY ALONE	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 035	GE

BOOSTER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2207	SA29F	147,608		MODEL 467. SRB NOSE CONE AND FORWA RD CYLINDRICAL BODY	MSFC - HIGH REYNOLDS NUMBER WIND TUNNEL - 033	1E
2216	SH12F	141,802		SRB	LARC - UNITARY PLAN WIND TUNNEL - 1115	HA
2223	SA8F	141,549		ORB.W/ ATTACH RING,AFT RING,W/AND W/O PROTUBERANCES, NOSE CAP	MSFC - 14-INCH TRISONIC WIND TUNNEL - 604	1H
2244	SA28F	151,082		146-INCH WITH AND WITHOUT PROTUBER ANCES	MSFC - 14-INCH TRISONIC WIND TUNNEL - 603	1I
2277	SA13F	144,579		MODEL 461, 142-INCH DIA. WITHOUT P ROTUBERANCES	MSFC - HIGH REYNOLDS NUMBER WIND TUNNEL - 034	1F
2310 V-01	SA14FB	151,083		RIGHT-HAND SRB REENTRY CONFIG.	MSFC - 14-INCH TRISONIC WIND TUNNEL - 640	IP
2310 V-02	SA14FB	151,084		RIGHT-HAND SRB REENTRY CONFIG.	MSFC - 14-INCH TRISONIC WIND TUNNEL - 645	IP
2325	SA14FA	147,645		CONF. 139	MSFC - 14-INCH TRISONIC WIND TUNNEL - 620	10
2331 V-01	SA11F	160,838		SRB-WITH HEAT SHIELD(SOLID)	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 074-1 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) -	NX

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BOOSTER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2331 V-02	SA11F	160,839		SRB-WITH HEAT SHIELD(SOLID)	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL - 074-1 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) -	NX
2334	SA16F	147,648		REENTRY CONFIG. WITH ALL MAJOR PROTUBERANCES	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-4T) - E3A	VP
2345	SA21F		78195	146-INCH SRB/TRUNCATED NOSE (MODEL 486)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 645	1R
2369	SA31F	167,345		SRB REENTRY CONFIG.	MSFC - HIGH REYNOLDS NUMBER WIND TUNNEL - 039	1T

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2001	MA5	128,750		NR ATP ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1002	OQ
2002	LA1	128,752		NR PRR ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 626	OU
2003	MA2	128,754		NR ATP ORBITER	LARC - 22-INCH HELIUM TUNNEL - 409	OS
2004	MA1	120,082		MSC 040A ORBITER	LTV - 15-FOOT BY 20-FOOT SUBSONIC WIND T UNNEL - S-081	DD
2005	OA1	120,070		NR ATP BASELINE ORBITER	MSFC - 14-INCH TRISONIC WIND TUNNEL - 555	76
2007	OA4	128,760		NR SSV ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 147	BI
2008	MA4	128,751		NR ATP ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 89	OT
2008 R-01	MA4	128,751		NR ATP ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 89	OT
2009	OA3	128,761		SHUTTLE ORBITER OA3	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 650	BH

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2014	OA7	128,753		NR PRR-SSV ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1007	OV
2016	OA2	120,092		NR ATP ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 689	DF
2017	OA5	123,851		NR ATP ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 690	DG
2019	OA6	128,756		ATP AND PRR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 694	DI
2020	OA9	128,757		PRR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 696	DJ
2021 V-01	OA45	128,758		-89A ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 699	DL
2021 V-02	OA45	128,758		-89A ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 699	DL
2022	OA10	128,759		RI -89B ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 698	DK
2023	LA2	128,763		LO-100 ORBITER	LARC - 22-INCH HELIUM TUNNEL - 411	OY
2029	OA47	128,765		2A ORBITER	MSFC - 14-INCH TRISONIC WIND TUNNEL - 568	84

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2030	OA14	128,768		-89B ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 700	DM
2031	LA3	128,769		LO-100 ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 85	OZ
2033	LA4	128,772		LO-100 ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 995 1014	P1
2034	LA22	128,764		DOUBLE DELTA WING ORBITER	LARC - 22-INCH HELIUM TUNNEL - 405	ON
2035	OH2A OH2B	134,077		THERMAL PROTECTION SYSTEM	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 158	BU
2036	LA5	128,775		LARC LO-100 ORBITER	LARC - 22-INCH HELIUM TUNNEL - 413	P2
2037	OA84	134,405		140A/B ORBITER	LTV - HIGH SPEED WIND TUNNEL - 488	FO
2038	OA16	128,793		NR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 701	DN
2040	LA6	128,773		NAR 089-B-139 ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 643	P4
2041	LA7A	128,781		LARC LO-100 ORBITER (SHIPS)	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 644	P5

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2042	IA52	134,087		ORBITER ALONE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 584	98
2043	LA16	128,770		RSI TILES,ORBITER	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 624	PB
2044	OA11A	128,786		SHUTTLE ORBITER 2A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 157	BS
2045	OA18	128,779		ROCKWELL SSV ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 704	DO
2046	LA17	128,776		LARC LO-100 ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 648	PC
2047	LA31	134,086		040A SPACE SHUTTLE CONFIGURATION	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 98	QN
2049	OH40	128,771		NR 2A ORBITER	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 3619/3670	GX
2050	OA43	128,790		ROCKWELL SSV 2A ORBITER	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 706	BT
2052	LA10	128,791		LO-100 ORB(SHIPS) (BW2VFB)	LARC - UNITARY PLAN WIND TUNNEL - 1015	P8

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER		DATASET 2-CHARACTER DESCRIPTOR
2053 V-01	OA21B	128,792		ORBITER 3	NRLAD - LOW SPEED WIND TUNNEL 705	-	DP
2053 V-02	OA21B	128,792		ORBITER 3	NRLAD - LOW SPEED WIND TUNNEL 705	-	DP
2054	LA8A LA8B	128,796		NR ORBITER	LARC - UNITARY PLAN WIND TUNNEL 1023/1034	-	P6
2055 V-01	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2055 V-01	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2055 V-02	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2055 V-02	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2055 V-03	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2055 V-03	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	-	87
2056	LA9	128,782		NAR 089B-MOD NOSE + OMS	LARC - LOW-TURBULENCE PRESSURE TUNNEL 130/135	-	P7

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2056	LA9	128,782		NAR 089B-MOD NOSE	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 130/135	P7
2057	OA44	134,411		ORBITER, MODIFIED 2A,3	LARC - UNITARY PLAN WIND TUNNEL - 1035	PN
2058	OA17	134,079		ORBITER NAR VL70-000134B CONFIG.	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 138	PP
2059	OA11B	128,798		ORBITER 2A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 160	BX
2060	OA58	134,091		ORBITER 3,A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 163	BY
2061	OA68	128,789		VL70-000147B (MODEL NO. 49-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2061	OA68	128,789		VL70-000139B (MODEL NO. 42-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2066	LA11	128,783		SPACE SHUTTLE ORBITER 089B-139	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 96	PD
2067	OS2	128,777		0.025 SCALE MODEL OF SPACE SHUTTLE ORBITER (24-0) FIN/RUDDER	LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL - 544	PZ
2068	OA71A	128,797		-89B(2A) ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 708	DS

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2069	MA7	134,074		PRR ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1031	PM
2071	OA23	128,799		MODEL 49-0.	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 168	B6
2071	OA23	128,799		MODEL 32-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 168	B6
2073	OA70	134,070		MODEL 42-0 OF THE VL70-000139B SSV ORBITER CONFIGURATION 3	LARC - UNITARY PLAN WIND TUNNEL - 1043	PV
2074	OA57A	134,414		-89B SPACE SHUTTLE ORBITER FERRY C ONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 709	DT
2075	OH41	128,784		MODEL SS-H-00326-1	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 3778/ 3855	P3
2076	OH41A	128,785		SS-H-00326B-5,-6,-7	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 4060/ 4079	P9
2076	OH41A	128,785		SS-H-00326-4	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 4060/ 4079	P9

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2077 V-01	IA29 OA63	134,095			ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB
2079	LA15	134,083		089B-139B(MODIFIED NOSE)	LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 441	PH
2080 V-01	OA57B	134,416		-89B SPACE SHUTTLE ORBITER FERRY C ONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 713	DV
2080 V-02	OA57B	134,417		-89B SPACE SHUTTLE ORBITER FERRY C ONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 713	DV
2081 V-01	OA69	141,580		-140 A/B SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 711	DQ
2081 V-02	OA69	141,581		-140 A/B SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 711	DQ
2082	OA73	128,800		CONFIGURATION 3A ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 167	B5
2083	OA20A	134,081		SSV 140A/B ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1057	Q2
2085	OH10 IH2	167,344			ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 171	B9
2086	OA71C	134,078		-89B ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 712	DU

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2089	OA25	134,082		140A/B	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 661	Q1
2090	LA8C	134,080		089B-139B ORBITER CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1040	P6
2091	LA7B	141,512		LO-100 ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 657/660	P5
2092	OA72		71968	ORBITER 139B (34-0)	LARC - 22-INCH HELIUM TUNNEL - 415	PT
2094	OS1	134,073		BASIC WING AND 11 HZ INBD AND 13.5 HZ OUTBD ELEVON ROTATIONAL FREQ	LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL - 545	QT
2095	OA49	134,404		ORBITER	MSFC - 14-INCH TRISONIC WIND TUNNEL - 581	92
2096	OH13	134,101		B10C5D7F4M3V5W87	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 644	PO
2097	OA62A	134,102		140A/B SSV ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 715	DW
2100	OH3A OH3B	134,075			AEDC - HYPERSONIC WIND TUNNEL (B) - VA289	TM

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2101	OH42A OH42B OH42C	134,076		B17C7M4F5W103E22V7R5	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 4080/4105 4130/4193	PA
2102	IA15	134,089		OT+L+P1+A1+F	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 175	EG
2103	IA62F	134,094		(034)(T9)(S12)(PT4)(FR4)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 589 TRISONIC WIND TUNNEL -	94
2103	IA62F	134,094		(034)(T14)(S12)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 589 TRISONIC WIND TUNNEL -	94
2104 V-01	OA62B	134;112		140A/B SSV ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 717	DZ
2104 V-02	OA62B	134,113		140A/B SSV ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 717	DX
2106	LA14A LA14B		72630	089B ORB.W/MOD NOSE	LARC - UNITARY PLAN WIND TUNNEL - 1046/1049	PG
2107	LA20		72631	089B ORBITERW/MOD. NOSE	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 653	PK
2109	OH45	141,527		147B CONFIGURATION ORBITER MODEL (50-0)	LARC - FREON TUNNEL - 121-137	QS

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2113	OA85	134,111		VL70-000139	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 101	QI
2114	OA86	134,098		B30 THRU B50C9M7F8W116E26V8R5X9	NRLAD - LOW SPEED WIND TUNNEL - 716	DX
2115	OA87	134,085		140A/B	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 176	EF
2116	OA91	134,888		B19C7F5J59W107E23V7R5X20 + NACELLE RAKES	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 278	DY
2117	OH14	147,617		B22C7F5M4V7W111	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 648	QL
2120	OA106	134,426		ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 668	QZ
2121	LA38A			TASK CANCELLED, JULY, 1975	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 669	QX
2124	IA16 OA26	134,093		140A/B ORBITER CONFIGURATION	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 180	EM
2125	OA88	134,409		BODY ALONE (-140A/B)	LARC - 22-INCH HELIUM TUNNEL - 422	QC
2126	LA25			TASK CANCELLED, DEC., 1976	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 100	PX

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2127	LA35		71954	-139 B ORBITER WITH VARIOUS CONTRO L DEFLECTIONS	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 102	OU
2128 V-01	OA53A	134,114		140A/B	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 747	EJ
2128 V-02	OA53A	134,115		140A/B	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 747	EJ
2130	OA22A	141,529		SSV 140A/B ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B2
2131	OA22B	141,530		SSV 4 140A/B ORBITER	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 716	B4
2132	LA42	141,535		-089B W/MOD NOSE	AEDC - HYPERSONIC WIND TUNNEL (B) - 48A	TP
2133	IA58	134,110		ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 107	OK
2134 R-01	OA77 OA78	134,429		ORBITER -140A/B CONFIG.	AEDC - HYPERSONIC WIND TUNNEL (B) - VA474 HYPERSONIC WIND TUNNEL (C) -	TN
2135	LA13			TASK CANCELLED, AUGUST, 1974	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 99	PF

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2137 V-02	OA105	134,106		CONFIGURATION3, MODEL 32-0	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 109	H2
2139	OA118	134,407		VL70-000140A/B, MODEL 43-0	NRLAD - LOW SPEED WIND TUNNEL - 724	F6
2140	OA37	134,408		140 A/B SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 719	F2
2141	OH11	141,538		MODEL NO. 29-0/VL70-000139	AEDC - HYPERSONIC WIND TUNNEL (B) - VA354	TS
2147	OA20C	134,097		140A/B SSV ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1057	Q2
2149	OA90	141,805		CONFIG. 4 (-140A/B) MODEL 72-0	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 110	QJ
2151	OH6	141,815		THERMOCOUPLE MODEL OF SSV ORB. 139	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 183	EQ
2152 R-01	OA81	134,423		VEHICLE 4 ORBITER (MODEL 51-0)	AEDC - HYPERVELOCITY WIND TUNNEL (F) - VA489	TO
2153	IH1	151,377		TANK ALONE	LARC - UNITARY PLAN WIND TUNNEL - 1071	Q7
2154	OH4A	134,437		MODEL 29-0	AEDC - HYPERSONIC WIND TUNNEL (B) - VA352	TT

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2155	OA110	134,406		B61C11F12M51W124E40	NRLAD - LOW SPEED WIND TUNNEL - 721	F5
2157	IH19	141,822		ORBITER WITH EXTERNAL TANK	LARC - HYPERSONIC NITROGEN TUNNEL - 28	QE
2159 V-01	OA59	134,410		140 A/B SSV ORBITER	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 709	ER
2159 V-02	OA59	134,412		140 A/B SSV ORBITER	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 709	ER
2162	OA36	134,430		140 A/B, VEHICLE 4	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 187	EP
2163	OA208	134,403		140A/B	LARC - UNITARY PLAN WIND TUNNEL - 1097	Q2
2164 V-02	OH12 IH21	141,829		EXTERNAL TANK	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I73-100	UG
2167	OA98	141,550		140A/B	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 190	EQ
2171 V-01	OH38	144,584		140C ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 198	EZ

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2171 V-02	OH38	144,585		140C ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 198	EZ
2171 V-03	OH38	144,586		140C ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 198	EZ
2172	OA99	134,415		SSV ORBITER CONF. 2 (MODEL 21-O OF VL70-000139)	LARC - 60-FOOT VACUUM SPHERE VON KARMAN F ACILITIES - R3289	H7
2176	LA40		72661	139B ORBITER	LARC - 22-INCH HELIUM TUNNEL - 426	H3
2177	OA83	141,510		140A/B SSV ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 194	EW
2178	OA53B	134,119		140A/B	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 747	EK
2179	OS8A/B	151,378		SS ORBITER LOWER WING CARRY-THROUG H STRUCTURE WITH A DUMMY PANEL , A	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 705 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	EX
2182	LA49	151,062		089B/139	LARC - UNITARY PLAN WIND TUNNEL - 1101	HJ
2183	LA51		72661	140A/B	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 684	HV

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2184	LA48	151,061		089B/140	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 680	HI
2185	OA53C	134,120		140A/B	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 747	EL
2186	OA116	134,428		.015-SCALE ORBITER MODEL,CONFIGURA TION 140A/B (49-0)	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 686	HU
2187	OA119A	134,421		140A/B SPACE SHUTTLE ORBITER INNER MOLD LINE CONFIGURATION, (MODEL 1	NRLAD - LOW SPEED WIND TUNNEL - 726	F8
2190	OA108	141,537		0.004-SCALE ORBITER FORCE MODEL (7 4-0)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 599	1D
2191	LA47		72661	140A/B	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 104	HH
2193	OH26	151,380		SS ORB. 140B MODEL (MODIFIED 22-0)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 199	E2
2195	OA82	134,442		ORBITER CONFIG. 3	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 113	HL
2196	OA79	141,531		ORBITER 140A/B	AEDC - HYPERSONIC WIND TUNNEL (B) - 71A	TW
2198	OA115	141,534		ORBITER 140A/B	AEDC - SUPERSONIC WIND TUNNEL (A) - 71A	TV

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER		DATASET 2-CHARACTER DESCRIPTOR
2202	OA123	141,526		140A/B OUTER MOLD LINE CONFIGURATI ON	NRLAD - LOW SPEED WIND TUNNEL 731	-	FA
2203	OA115B	141,524		140C OUTER MOLD LINE CONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL 730	-	F9
2205	OA109	141,532		RI SPACE SHUTTLE ORBITER VEHICLE 4 (MODIFIED) CONFIGURATION	LARC - 22-INCH HELIUM TUNNEL 431	-	HE
2209	OA124	141,536		MODEL 43-O	NRLAD - LOW SPEED WIND TUNNEL 736	-	FB
2211 V-01	CA5	141,800		0.03-SCALE 45-O (ORBITER) MODEL	TBCA - TRANSONIC WIND TUNNEL 1431	-	GM
2211 V-02	CA5	141,803		0.03-SCALE 45-O (ORBITER) MODEL	TBCA - TRANSONIC WIND TUNNEL 1431	-	GM
2211 V-03	CA5	141,804		0.03-SCALE 45-O (ORBITER) MODEL	TBCA - TRANSONIC WIND TUNNEL 1431	-	GM
2214	OA89	141,513		140C MODIFIED SPACE SHUTTLE ORBITE R MODEL 74-O	LARC - HYPERSONIC NITROGEN TUNNEL 30-31	-	QD
2215	LA58	144,592		SSV ORBITER CONFIGURATION 140A/B-O .015 SCALE	LTV - HIGH SPEED WIND TUNNEL 512	-	HY
2221	OA143	141,548		140C CONFIGURATION ORBITER (MODEL 16-O)	NRLAD - LOW SPEED WIND TUNNEL 737	-	FC

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2222 V-01	OH49B	147,626		B25C10M4F10E26R5V7W116	AEDC - HYPERSONIC WIND TUNNEL (B) - 57A	V1
2222 V-02	OH49B	147,627		B25C10M4F10E26R5V7W116	AEDC - HYPERSONIC WIND TUNNEL (B) - 57A	V1
2225	OH4C	141,505		MODEL 21-O, LINES VL70-000139	AEDC - HYPERSONIC WIND TUNNEL (B) - VA352	TZ
2229	OA102	141,508		SSV 140A/B	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 687	HM
2232	OA131	141,521		MODEL 74-O, CONF. 4	MSFC - 14-INCH TRISONIC WIND TUNNEL - 607	1M
2233	LA59	151,068		72-OTS (B26C9E44F10FL10/11M16N28/86PS1-SR5S21T2,V8W116	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 703	HZ
2234	OA113	141,547		ORBITER WITH ELEVON AND BODY FLAP DEFLECTIONS	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I84-220	UH
2238	OA93	141,847		51-O	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I84-120	UI
2241 V-01	OH39	160,490		MODEL 60-3, VEH. 4	AEDC - HYPERSONIC WIND TUNNEL (B) - 74A	V9
2241 V-02	OH39	160,491		MODEL 60-3, VEH. 4	AEDC - HYPERSONIC WIND TUNNEL (B) - 74A	V9

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2241 V-03	OH39	160,492		MODEL 60-3, VEH. 4	AEDC - HYPERSONIC WIND TUNNEL (B) - 74A	V9
2241 V-04	OH39	160,493		MODEL 60-3, VEH. 4	AEDC - HYPERSONIC WIND TUNNEL (B) - 74A	V9
2245 V-01	OA161A/B/C	147,618		SPACE SHUTTLE VEHICLE ORBITER 140A /B (MODIFIED)	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 094	E7
2245 V-02	OA161A/B/C	147,619		SPACE SHUTTLE VEHICLE ORBITER 140A /B (MODIFIED)	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 094	E7
2246	LA65	144,600		WING-BODY WITH VARIATIONS	ARC - 12-FOOT PRESSURE TUNNEL - 086	NC
2247	OA160	141,834		MODEL 51-0 OF MODIFIED VEH. 4 ORB. (B26 C9 E26 F7 M7 N28 R5 V8 W116)	AEDC - HYPERVELOCITY WIND TUNNEL (F) - 28A	VA
2250	OH43	141,539		15-0,FLAT PLATE MODEL	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 182	ND
2251	OH9	141,540		MODEL 29-0/VL70-006139	AEDC - HYPERSONIC WIND TUNNEL (B) - VA353	V5
2252	OH25A	141,546		ORB.; 40(SEMISPAN; BODY FLUSH; LE AD. EDGE; TRANSITION;SEMISPAN WING	AEDC - HYPERSONIC WIND TUNNEL (B) - 83A	V6

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2254 V-01	OA148 OA148P	144,619		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-02	OA148 OA148P	144,620		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-03	OA148 OA148P	144,621		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-04	OA148 OA148P	144,622		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-05	OA148 OA148P	144,623		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-06	OA148 OA148P	144,624		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-07	OA148 OA148P	144,625		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8
2254 V-08	OA148 OA148P	144,626		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI - TARY) 073	E8

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2254 V-09	OA148 OA148P	144,627		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 073	E8
2254 V-10	OA148 OA148P	144,628		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 073	E8
2254 V-11	OA148 OA148P	147,601		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 073	E8
2254 V-12	OA148 OA148P	147,602		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 073	E8
2254 V-13	OA148 OA148P	147,603		VEHICLE 5 ORBITER	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 073	E8
2257	LA69	151,369		OUTER MOLD LINE MODEL 72-OTS	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 714	J9
2259	LA60A			TASK CANCELLED, MAY 1977	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 704	J1
2261 V-01	OA100	167,364		ORBITER VEHICLE 101 WITHOUT TAILCO NE	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND T UNNEL - 462	NA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2261 V-02	OA100	167,365		ORBITER VEHICLE 101 WITHOUT TAILCO NE	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND T UNNEL - 462	NA
2263	OH74	144,596		140 C ORB (B62 C12 E52 F10 M16 R19 V8 W127)	AEDC - HYPERSONIC WIND TUNNEL (B) - 88A	VB
2264	LA62	141,843		SSV ORBITER 49-0 MODIFIED	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 717	J3
2265	OA159	141,832		CONFIG 1 ORBITER WITH NOSE AND TAI L RCS JETS	ARC - 12-FOOT PRESSURE TUNNEL - 078	NG
2266	LA67	144,607		140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	LTV - HIGH SPEED WIND TUNNEL - 552	FD
2267 V-01	MA22	147,604		REACTION CONTROL SYSTEM	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 118	JA
2267 V-02	MA22	147,605		REACTION CONTROL SYSTEM	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 118	JA
2267 V-03	MA22	147,606		REACTION CONTROL SYSTEM	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 118	JA
2267 V-04	MA22	147,607		REACTION CONTROL SYSTEM	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 118	JA
2268 V-01	CA9 CA9P	151,396		ORBITER 47-0	TBCA - TRANSONIC WIND TUNNEL - 1477	GQ

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2268 V-02	CA9 CA9P	151,397		ORBITER 47-O	TBCA - TRANSONIC WIND TUNNEL - 1477	GQ
2268 V-03	CA9 CA9P	151,398		ORBITER 47-O	TBCA - TRANSONIC WIND TUNNEL - 1477	GQ
2268 V-04	CA9 CA9P	151,399		ORBITER 47-O	TBCA - TRANSONIC WIND TUNNEL - 1477	GQ
2268 V-05	CA9 CA9P	151,400		ORBITER 47-O	TBCA - TRANSONIC WIND TUNNEL - 1477	GQ
2269	LA70	147,624		140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL - T18-103	UK
2270	LA63A	144,579		ORBITER W/ INDEPENDENTLY-OPERATED LEFT,RIGHT ELEVON SURFACES	LARC UNITARY PLAN WIND TUNNEL - 1118	J4
2271	LA71A/B	151,044		MODEL 69-O WITH FOREBODY RSI MODS	LARC - UNITARY PLAN WIND TUNNEL - 1147 1132	JC
2273 V-01	CA26	144,612		48-O (02, 04, 06, S1, ATY, ATX)	LTV - HIGH SPEED WIND TUNNEL - 559	FE
2273 V-02	CA26	144,613		48-O (02, 04, 06, S1, ATY, ATX)	LTV - HIGH SPEED WIND TUNNEL - 559	FE
2273 V-03	CA26	144,614		48-O (02, 04, 06, S1, ATY, ATX)	LTV - HIGH SPEED WIND TUNNEL - 559	FE

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2273 V-04	CA26	144,615		48-O (O2, O4, O6, S1, ATY, ATX)	LTV - HIGH SPEED WIND TUNNEL - 559	FE
2273 V-05	CA26	144,616		48-O (O2, O4, O6, S1, ATY, ATX)	LTV - HIGH SPEED WIND TUNNEL - 559	FE
2275 V-01	CA23B	144,603		0.0125-SCALE 747 MODEL	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 120	NH
2275 V-02	CA23B	144,604		0.0125-SCALE 747 MODEL	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 120	NH
2278	LA61			TEST CANCELLED, MAY 1976	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 219	J2
2279	LA63B	144,606		140A/B/C (B26 C9 E43 F8 M16 N28 R5 V8 W)	LARC - UNITARY PLAN WIND TUNNEL - 1151	d4
2280	LA28	144,582		FLAT-PLATE MODEL WITH THIN-FILM H EAT FLUX GAGES	LTV - HIGH SPEED WIND TUNNEL - 498	QB
2281	LA66	147,621		BASELINE	ARC - 12-FOOT PRESSURE TUNNEL - 135-1	NJ
2283	MA14	147,649		ORBITER 089B	LTV - LOW SPEED WIND TUNNEL - 422	FG
2285	OH50A	144,595		82-O, WITH AND WITHOUT PROTUBERANC ES, 50% FOREBODY MODELS	AEDC - HYPERSONIC WIND TUNNEL (B) - VA526/21BA	VE

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2286	OA220	147,625		SSV ORBITER (MODEL 57-0) FOREBODY WITH TPS TILES ALONE	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 150-1	NL
2288	OH64	151,384		BASE HEATING MODEL 25-0	LERC - SPACE POWER FACILITY -	GG
2289 V-01	OA163	147,611		SPACE SHUTTLE ORBITER 140C	NRLAD - LOW SPEED WIND TUNNEL - 751	FF
2289 V-02	OA163	147,612		SPACE SHUTTLE ORBITER 140C	NRLAD - LOW SPEED WIND TUNNEL - 751	FF
2289 V-03	OA163	147,613		SPACE SHUTTLE ORBITER 140C	NRLAD - LOW SPEED WIND TUNNEL - 751	FF
2289 V-04	OA163	147,614		SPACE SHUTTLE ORBITER 140C	NRLAD - LOW SPEED WIND TUNNEL - 751	FF
2290 V-01	CA8	147,641		747 ALONE	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF
2290 V-02	CA8	147,642		747 ALONE	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF
2290 V-03	CA8	147,643		747 ALONE	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2294 V-01	OA172	160,822		140A/B SS ORBITER (MODEL 43-O) ORB ITER FERRY CONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 752	FG
2294 V-02	OA172	160,823		140A/B SS ORBITER (MODEL 43-O) ORB ITER FERRY CONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 752	FG
2296 V-01	LA81	147,609		.03614-SCALE ORBITER MODEL OF A 08 9B CONFIGURATION WITH A 139B CONFI	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 229	JP
2296 V-02	LA81	147,610		.03614-SCALE ORBITER MODEL OF A 08 9B CONFIGURATION WITH A 139B CONFI	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 229	JP
2297	LA45A/B	147,628		WING	LARC - UNITARY PLAN WIND TUNNEL - 1145	HB
2298	LA73A LA73B	151,409		SSV ORBITER MODEL 69-O	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 227 LOW-TURBULENCE PRESSURE TUNNEL - 238	JE
2300	LA61B	147,629		140A/B/C (B26 C9 E43 F8 M16 N28 R5 V8 W)	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 228	JT
2301	OH54A	144,605		MODELS 82-1, -3, -5, -8, -11, ALL 50 PERCENT FOREBODIES	AEDC - HYPERSONIC WIND TUNNEL (B) - 82A	VH
2302 V-01	OA174	167,340		ORBITER VEHICLE 101 WITH TAIL CONE	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND T UNNEL - 479	NO

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2302 V-02	OA174	167,341		ORBITER VEHICLE 101 WITH TAIL CONE	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND TUNNEL - 479	NO
2303	OH75	144,618		MODELS 82-1, -4, 50 PERCENT FOREBODIES	AEDC - HYPERSONIC WIND TUNNEL (B) - E3A	VG
2304	OA173	160,846		TAILCONE-ON	ARC - 12-FOOT PRESSURE TUNNEL - 180-1	NS
2305 V-01	LA76	151,059		B26C9E43F8M16N28R5V8W	LTV - HIGH SPEED WIND TUNNEL - 573	FI
2305 V-02	LA76	151,060		B26C9E43F8M16N28R5V8W	LTV - HIGH SPEED WIND TUNNEL - 573	FI
2307 V-01	CA14A	160,840		BOEING 747 CAM/ORBITER - ALT CONFIGURATION	TBCA - TRANSONIC WIND TUNNEL - 1496 1497	GR
2307 V-02	CA14A	160,841		BOEING 747 CAM/ORBITER - ALT CONFIGURATION	TBCA - TRANSONIC WIND TUNNEL - 1496 1497	GR
2309	LA72	147,644		FOREBODY B1, B6, B7	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 740	JD
2311	LA78 LA87 LA88	147,620		B58C5E18F4R5V5W87-VEHICLE 2A (MODIFIED)	LARC - FREON TUNNEL - 267-268 22-INCH HELIUM TUNNEL - 446	J5

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2314	OA176	151,406		LANDING	NRLAD - LOW SPEED WIND TUNNEL - 754	FJ
2317	OH53A	151,787		0.04-SCALE (83-0)ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 216	NV
2318 V-01	LA75	147,646		ORBITER-140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	LARC - UNITARY PLAN WIND TUNNEL - 1173	JH
2318 V-02	LA75	147,647		ORBITER-140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	LARC - UNITARY PLAN WIND TUNNEL - 1173	JH
2320 V-01	OA169	151,390		ORBITER 0.0125 70-0T	AEDC - HYPERSONIC WIND TUNNEL (B) - D8A	VJ
2320 V-02	OA169	151,391		ORBITER 0.0125 70-0T	AEDC - HYPERSONIC WIND TUNNEL (B) - D8A	VJ
2320 V-03	OA169	151,392		ORBITER 0.0125 70-0T	AEDC - HYPERSONIC WIND TUNNEL (B) - D8A	VJ
2321 V-01	OH69	151,410		ORBITER VEHICLE FOREBODY	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-E9A	VM
2321 V-02	OH69	151,411		ORBITER VEHICLE FOREBODY	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-E9A	VM
2322	OA228	160,847		SPACE SHUTTLE ORBITER VEHICLE 102	NRLAD - LOW SPEED WIND TUNNEL - 757	FL

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2329	OA224	160,837		SSV ORBITER (MODEL 57-0) FOREBODY W/ ADP, FTP, AND ADP AND FTP	LARC - 16-FOOT TRANSONIC TUNNEL - 312	JU
2330	OH52	147,637		CONF. 4, MODEL 29-0	AEDC - HYPERSONIC WIND TUNNEL (B) - 524	VO
2332	CA13	151,373		ORBITER- TAILCONE ON, TC23, STING MOUNTED	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 121	NZ
2333 V-01	OA175	151,374		O1+TC23'ALT' CONFIGURATION WITH TA ILCONE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 187-1	2A
2333 V-02	OA175	151,375		O1+TC23'ALT' CONFIGURATION WITH TA ILCONE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 187-1	2A
2333 V-03	OA175	151,376		O1+TC23'ALT' CONFIGURATION WITH TA ILCONE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 187-1	2A
2336	LA145	167,375		LARC .0098-SCALE CAST ALUMINUM	LARC - UNITARY PLAN WIND TUNNEL - 1345 1390	7H
2337	OA236	151,786		FLIGHT TEST PROBE CALIBRATION	NRLAD - LOW SPEED WIND TUNNEL - 759	FM
2340 V-01	OH98	160,501		0.0175-SCALE THIN-SKIN THERMOCOUPL E SHUTTLE ORBITER 60-0	AEDC - HYPERSONIC WIND TUNNEL (B) - J7A	VS

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2340 V-02	OH98	160,502		0.0175-SCALE THIN-SKIN THERMOCOUPLE SHUTTLE ORBITER 60-0	AEDC - HYPERSONIC WIND TUNNEL (B) - J7A	VS
2342	OH54B	151,074		MODEL 82-0. 50% FOREBODY	AEDC - HYPERSONIC WIND TUNNEL (B) - 82A	VM
2343	LA85	160,849		ATP ORBITER	LARC - 22-INCH HELIUM TUNNEL - 445	JY
2344 V-01	LA77	151,788		ORBITER-140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 200-1	2B
2344 V-02	LA77	151,789		ORBITER-140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 200-[illegible]	2B
234[illegible] [illegible]-0[illegible]	CA15B	160,483		747-100 WITH CAM TYPE I[illegible] [illegible]S ATTACHED	UW - LOW SPEED WIND TUNNEL - 11[illegible]	GT
234[illegible]	CA17	151,379		ORBITER B26.1C9E44F8[illegible]V8W116	UW - LOW SPEED WIND TUNNEL - 1184	GW
2350	OH46	151,065		140B ORB., MODEL 90-0	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - [illegible]502-4601	OR
2351	OA238	160,853		ORBITER 102 FOREBODY	[illegible]LAD - LOW SPEED WIND TUNNEL - [illegible]64	FN

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2352	LA91	151,383		ORBITER 140A/B/C B26C9E43F8M16N28 R5V8W	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 758	J6
2353	LA89	160,827		ALT	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 213-1	2E
2355	OH49A	151,066		B17 C7 E22 F7 M4 W104	AEDC - SUPERSONIC WIND TUNNEL (A) - VA525/218A	VW
2356	OH60	151,064		MODEL 83-0 (B60 C10)	AEDC - HYPERSONIC WIND TUNNEL (B) - B7A	VU
2358	OH50B	151,067		FORWARD 50 PERCENT FUSELAGE, MODEL 83-0	AEDC - HYPERSONIC WIND TUNNEL (B) - 58A	VL
2359	OH66	151,405		ROCKWELL VEHICLE 3 (MODIFIED) SHUT TLE ORBITER. MODEL 66-0	CALSPAN - 96-INCH HYPERSONIC SHOCK TUNNEL - 131	UO
2360 V-01	OA221B/C	160,521		ORBITER VEHICLE 102 FOREBODY	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 119-1 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 119	2I
2360 V-02	OA221B/C	160,522		ORBITER VEHICLE 102 FOREBODY	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 119-1 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 119	2I

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2361 V-01	OA163B	151,370		B68C12E55F10M16N28R5V8W127X9	NRLAD - LOW SPEED WIND TUNNEL - 768	FP
2361 V-02	OA163B	151,371		B68C12E55F10M16N28R5V8W127X9	NRLAD - LOW SPEED WIND TUNNEL - 768	FP
2363	OS7	151,057		55-O (FIN, RUDDER)	LARC - TRANSONIC DYNAMICS TUNNEL - 246	HR
2364 V-01	OA145B	160,527		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	G2
2364 V-02	OA145B	160,528		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	G2
2364 V-03	OA145B	160,529		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	G2
2365	OS6	151,056		MODEL 54-O	LARC - TRANSONIC DYNAMICS TUNNEL - 246	HR
2366	OH25B	151,063		140C [illegible]17C7E22F5M4R5V7W103	AEDC - HYPERSONIC WIND TUNNEL (B) - 41B-83A	VY
2367	OH57A/B	151,773		MODEL 9I-O ORBITER 102, DRWG VC-70-000002B	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-K3A	4A

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2368	OH51	151,058		MODELS 46-0, 64-0 90-0	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 112	HD
2370 V-01	OA149B/C	151,790		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1	2K
2370 V-02	OA149B/C	151,791		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1	2K
2370 V-03	OA149B/C	151,792		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 115-1	2K
2371	OH78	151,408		ORBITER VEHICLE 102	JSC - 56-A-76	GN
2373	LA99	160,821		LARC BUILT MODEL 201-0 0.030 SCALE SSV ORBITER WITH REMOTE ELEVONS	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 769	K9
2374	LA82 LA103	167,372		B20F4M16W87E19V5R5TC4	CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL - T18-111 T18-113	UN

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2375	OA237	160,530		ORBITER VEHICLE 102 FOREBODY	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND T UNNEL - 500	2M
2376 V-01	OA149A	151,779		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 115	2K
2376 V-02	OA149A	151,780		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 115	2K
2376 V-03	OA149A	151,781		B70C9E44F9M16N28R5V8W116(ORBITER)	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 115	2K
2380 V-01	OA145A	151,801		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F
2380 V-02	OA145A	151,802		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F
2380 V-03	OA145A	151,803		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F
2380 V-04	OA145A	151,804		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2380 V-05	OA145A	151,805		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F
2380 V-06	OA145A	151,806		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 118-1	2F
2381	LA107			TEST CANCELLED SEPTEMBER 1978	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 780	KF
2382	OH8 IA109	151,382		MODEL 25-0 (VEH. 2A AFT OF STA. XO =1400 AND PROP. SIMULATION SYS.)	MSFC - NASA/MSFC IMPULSE BASE FLOW FACILI TY - 027	1U
2385	OH15	151,366		MODEL 53-0 (ELEVON/WING GAP)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 173	ED
2386	OH44	151,368		MODEL 53-0 (ELEVON/ELEVON GAP)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 177	EH
2387	LA104			TEST CANCELLED SEPTEMBER 1978	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 246	KA
2388	OH84A	167,676		MODEL 83-0 (0.04-SCALE)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-R4A	4E
2389 V-01	OA145C	160,810		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	2H

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2389 V-02	OA145C	160,811		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	2H
2389 V-03	OA145C	160,812		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 118-1	2H
2390	LA101	160,481		MODEL 44 O SSV ORBITER WITH REMOTE CONTROLLED ELEVONS	LARC - UNITARY PLAN WIND TUNNEL - 1194	KD
2392	OA250	151,389		MODEL 45-O ORB. 140A/B CONF. (MODI FIED)	NRLAD - LOW SPEED WIND TUNNEL - 775	FQ
2395	LA111	151,394		MODEL 44-O (SILTS POD)	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 786	KJ
2396	LA110	151,393		MODEL 44-O (SILTS POD)	LARC - UNITARY PLAN WIND TUNNEL - 1212	KI
2399	LA114	151,388		MODEL 44-O (SILTS POD)	LARC - UNITARY PLAN WIND TUNNEL - 1217	KK
2400	OA234	160,518		ORBITER VEHICLE 102 FOREBODY	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 042	GY
2402	OA223	151,763		B75C16F64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14	NRLAD - LOW SPEED WIND TUNNEL - 766	FO

ORBITFR DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2405 V-01	OA101	151,756		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2405 V-02	OA101	151,757		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2405 V-03	OA101	151,758		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2405 V-04	OA101	151,759		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2405 V-05	OA101	151,760		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2405 V-06	OA101	151,761		OV102	ARC - 12-FOOT PRESSURE TUNNEL - 218-1	2Q
2409	LA115	160,842		ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 803	KL
2410	OH56	151,777		ORBITER WING TIP (MODEL 91-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-R3A	RT
2414 V-01	OA232	160,484		B74C16N108PR4PR7PR8PR14VT18VT19	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 431	VR

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2414 V-02	0A232	160,485		B74C16N108PR4PR7PR8PR14VT18VT19	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 431	VR
2415 V-01	0A208/209	151,784		SSV 102 ORBITER CONFIGURATION MODE L 105-0	AEDC - SUPERSONIC WIND TUNNEL (A) - V41B-P5A	4I
2415 V-02	0A208/209	151,785		SSV 102 ORBITER CONFIGURATION MODE L 105-0	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-P5A	4J
2417	0H58	151,770		93-0 FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 235	2X
2419	0A270B/C	151,762		SSV OV102 ORBITER CONFIGURATION MO DEL 104-0 INSTRUMENTED ELEVONS	LARC - 16-FOOT TRANSONIC TUNNEL - 325	KP
2420	0H103A	167,385		MODEL 83-0 LINES VL70-000140C	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-V2A	4H
2421 V-01	0A251B/C	160,495		99-0	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 282-1 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	2Z
2421 V-02	0A251B/C	160,496		99-0	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 282-1 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	2Z

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2424 V-01	OA126A,B,C	160,506		B62C9F64F9M16RSV8W131N112FD3N28	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL - 289-1 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	2Y
2424 V-02	OA126A,B,C	160,507		B62C9E64F9M16RSV8W131N112FD3N28	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL - 289-1 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	2Y
2424 V-03	OA126A,B,C	160,508		SSV 102 ORBITER CONFIGURATION 47-0	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL - 289-1	3H
2426	LA124		TP1186	140A/B ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1207 LG2	KR
2427	OH103B	167,675		MODEL 60-0; LINES VL70-000140C	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-V2C	4M
2430 V-01	OA270A	160,817		OV102(MODEL 39-0)	LARC - 16-FOOT TRANSONIC TUNNEL - 326	KN
2430 V-02	OA270A	160,818		OV102(MODEL 39-0)	LARC - 16-FOOT TRANSONIC TUNNEL - 326	KN
2430 V-03	OA270A	160,819		OV102(MODEL 39-0)	LARC - 16-FOOT TRANSONIC TUNNEL - 326	KN

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2432	LA125	160,845		OV102 (105-0)	LARC - UNITARY PLAN WIND TUNNEL - 1243	KS
2433	OA171	151,764		0.02 SCALE ORBITER VEHICLE 102 (MO DEL 105-0), MODIFIED MODEL 89-0	NSWC - 1310	GJ
2434	OA129	151,782		ORBITER (47.0) OV102 WITH RIGID AN D FLEXIBLE TAIL	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 507	4N
2436 V-06	LA126		72661			KT
2443	OH79	151,769		65-0 SS ORBITER BASE HEATING MODEL	JSC - 61-A-78	5A
2445 V-01	OA146	167,652		SSV 14DA/B/C/R ORBITER	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 318-1	3G
2445 V-02	OA146	167,653		SSV 14DA/B/C/R ORBITER	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 318-1	3G
2450	OS4A OS4B OS12	151,774			ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 041,154,11 6	3Y
2451	OH90A/MA29	151,772			AEDC - HYPERSONIC WIND TUNNEL (B) - P4A	4S

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2454 V-03	LA57		72661	140A/B ORBITER-BASELINE	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 114	HX
2455	OH102A	151,778		140C ORBITER WITH SLAB SIDED VERTI CAL TAIL	AEDC - HYPERSONIC WIND TUNNEL (B) - 41B-65	4T
2458	OS36/37	167,668		HRSI TILE PANEL	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 369-1 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	3L
2463	OS41 OS42 OS45	167,672		107-0 LRSI TILE PANEL	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 380-1 381-1	3O
2464 V-01	OH84B	160,828		B62C12ES2F10M16V30W127 (56-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-67	4U
2464 V-02	OH84B	160,829		B62C12ES2F10M16V30W127 (56-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-67	4U
2464 V-03	OH84B	160,830		B62C12ES2F10M16V30W127 (56-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-67	4U
2464 V-04	OH84B	160,831		B62C12ES2F10M16V30W127 (56-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-67	4U
2464 V-05	OH105	160,832		B62C12E52F10M16R18V8W116T38S26 (6 0-0)	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-67	4V

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DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2465	OS55/57	167,674		81-0 HRSI TILE PANEL	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 464	AJ
2466 V-01	OA257	167,663		B75,C16,E64,F16,M52,N108,N110,N111 ,R20,V27,W131	LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 6559	7E
2466 V-02	OA257	167,664	4	B75,C16,E64,F16,M52,N108,N110,N111 ,R20,V27,W131	LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 6559	7E
2468	OH105B OH84C	167,352		ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 247 246	3R
2469	OS302A	167,367			ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 503-1	AL
2470	OS31A	167,658		LRSI (THIN TILE)	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 145-1	A1
2472	OH400	160,494		B75C16E64F16M52W131V29	AEDC - SUPERSONIC WIND TUNNEL (A) - V41B-65	4X
2473 V-01	OA252	167,388		TPS TILE CAVITY FLOW FIELD MODEL	ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 382-1	3T

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2473 V-02	OA252	167,389		TPS TILE CAVITY FLOW FIELD MODEL	ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU- NNEL - 382-1	3T
2477	LA141A/B	160,825		ORBITER 74-0	LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 6546	KZ
2478 V-01	LA131	160,503		B75C16E64F16FR22HG1M52N108N109N110 N111R20V27	LARC - UNITARY PLAN WIND TUNNEL - 1299	7A
2478 V-02	LA131	160,504		B75C16E64F16FR22HG1M52N108N109N110 N111R20V27	LARC - UNITARY PLAN WIND TUNNEL - 1299	7A
2478 V-03	LA131	160,505		B75C16E64F16FR22HG1M52N108N109N110 N111R20V27	LARC - UNITARY PLAN WIND TUNNEL - 1299	7A
2482 V-01	OA400	160,814		ORBITER - 470	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 427-1 427-2	3X
2482 V-02	OA400	160,815		ORBITER - 470	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 427-1 427-2	3X
2482 V-03	OA400	160,816		ORBITER - 470	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 427-1 427-2	3X

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2483 V-01	OS49	167,357			AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF-556	T5
2483 V-02	OS49	167,358			AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF-556	T5
2485	OS50 OS50A	167,361		CALIBRATION PANEL	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 425 425-1	AC
2486 V-01	OA253	167,368		B64C14E63F14M18N92N94R18U2V23W129	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 572	4Y
2486 V-02	OA253	167,369		B64C14E63F14M18N92N94R18U2V23W129	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 572	4Y
2487	OS43 OS51 OS51B OS51C	167,362		HRSI TILED PANEL	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 380-1 436-1,3	AM
2488	OS300	160,835		AFRSI PANEL	ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 458	AE

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2489	OS56	167,366			AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF-608	T8
2490 V-01	OH109	167,349		56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2490 V-01	OH109	167,349		60-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2490 V-02	OH109	167,350		56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2490 V-02	OH109	167,350		60-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2490 V-03	OH109	167,351		60-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2490 V-03	OH109	167,351		56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-G9	4Z
2491 V-01	OA258	167,659		B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14V	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-H0	T1
2491 V-02	OA258	167,660		B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14V	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-H0	T1
2491 V-03	OA258	167,661		B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14V	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-H0	T1

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2491 V-04	0A258	167,662		B75C16E64F16FD3FR22HG1M52N108N109N 110N111R20V27VT10VT11VT12VT13VT14V	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-H0	T1
2492	0H107	167,359		OV-102 (RIGHT HAND WING AND TRUNCA TED AFT FUSELAGE)	AEDC - HYPERSONIC WIND TUNNEL (B) - V43B-17	T2
2493 V-01	0A259	167,665		B75,C16,E64,F16,M52,N108,N109,N110 ,N111,R20,V27,W131	AEDC - HYPERSONIC WIND TUNNEL (B) - V42B-145 V43B-14	T3
2493 V-02	0A259	167,666		B75,C16,E64,F16,M52,N108,N109,N110 ,N111,R20,V27,W131	AEDC - HYPERSONIC WIND TUNNEL (B) - V42B-145 V43B-14	T3
2494	0H108	167,360		OV-102 ELEVON GAP	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 254	AH
2495	0H110	160,844		56-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 253	AG
2495	0H110	160,844		60-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 253	AG
2496 V-01	0H111	167,380		0.0175-SCALE 56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-1C	T6
2496 V-02	0H111	167,381		0.0175-SCALE 56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-1C	T6

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2496 V-03	OH111	167,382		0.0175-SCALE 56-0	AEDC - HYPERSONIC WIND TUNNEL (B) - V41B-1C	T6
2498	OA255 OA256	167,656		102 (PRELIMINARY)	LARC - UNITARY PLAN WIND TUNNEL - 1311 16-FOOT TRANSONIC TUNNEL - 1358	7B
2499	OA164	160,836		B69C14DT1E54F14FD1FD2FR12HA1HG1M18 N92N94N107PR1R18V23VT1VT2W129	ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND T UNNEL - 473	NM
2500	OS301	160,848		115-0 AFRSI MATERIAL PANELS	ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 467-1	AK
2501	OS304A	167,373			ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 501-1	AP
2502	OS304B	167,378			ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 501-1	AQ
2503	OS53A OS53B	167,363		20A	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 905,6,7,9	7C
2504	OS302B	167,379			ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 503-1	AO

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2505	OS46A-G	167,376			AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF-551	7T
2506	OS60,1,2,3	167,384			ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 500,07,31 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	AS
2507	MA33A/B	167,683		ORBITER MODEL 106-0	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 510-1 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	AU
2508	OS306A/B	167,650		FIXTURE 96-0	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 548-1 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	AV
2509	OA307A/B	167,654		FLAT PANEL W/FRCI-12 TILES	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 549-1 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	AW
2510	OS309A	167,651			ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 548-1	AY

ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2512	OA303	167,667		122-0	ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TU NNEL - 542-1	AX
2513	OS313	167,678		MODEL 129-0	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - TF645	A3
2515	OS305-1/5	167,684		MODEL 125-0, AFRSI BONDED TO SUPPO RT PLATE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 562-1/5	A7

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2006	IA1A	120,088		MSFC/NR PARAMETRIC LAUNCH VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 556	77
2010	IA1B	120,060		NR ATP ORBITER/TANK AND SRMS ON AN D OFF	MSFC - 14-INCH TRISONIC WIND TUNNEL - 545	72
2011	MA9F	120,089		NR ATP ORBITER/EXTERNAL TANK AND S RBS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 558	78
2013	IA2	128,762		SHUTTLE ORBITER/TANK SRM (N-040A)	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 616	BJ
2015 V-01	IA4	120,091		NASA SSV ORBITER ON NR EOHT WITH S INGLE BSRM	LTV - HIGH SPEED WIND TUNNEL - 458	DE
2015 V-02	IA4	120,091		NASA SSV ORBITER ON NR EOHT WITH S INGLE BSRM	LTV - HIGH SPEED WIND TUNNEL - 458	DE
2018	IA3	128,755		ATP LAUNCH CONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 693	DH
2024	IA7	128,766		040A SPACE SHUTTLE INTEGRATED VEHI CLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 686	BL
2026	IA31F	128,778		MCR 0074 BASELINE LAUNCH VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 566	81

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2027 V-01	IA32FB	141,807		ORB. WITH ET AND 2 SRB'S	MSFC - 14-INCH TRISONIC WIND TUNNEL - 567	82
2027 V-02	IA32FB	141,808		ROB. WITH ET AND 2 SRB'S	MSFC - 14-INCH TRISONIC WIND TUNNEL - 567	82
2027 V-03	IA32FB	141,809		ORB. WITH 2 SRB'S	MSFC - 14-INCH TRISONIC WIND TUNNEL - 567	82
2028 V-01	IA31FB	134,434		MCR 0074 ORBITER LAUNCH	MSFC - 14-INCH TRISONIC WIND TUNNEL - 570	83
2028 V-02	IA31FB	134,436		MCR 0074 ORBITER LAUNCH	MSFC - 14-INCH TRISONIC WIND TUNNEL - 570	83
2032 V-01	IA9A,B,C QA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-02	IA9A,B,C QA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-

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INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-03	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-04	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-05	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-06	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-07	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-08	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-09	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-10	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-11	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-12	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-13	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-14	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-15	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-16	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-17	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-18	IA9A,B,C OA12A,C	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 707 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2039	IA6A	134,071		MODEL 2A ORBITER AND EXTERNAL TANK	MSFC - 14-INCH TRISONIC WIND TUNNEL - 571	85
2042	IA52	134,087		MFSC MODEL NO 453	MSFC - 14-INCH TRISONIC WIND TUNNEL - 584	98
2048	IA12B	134,104		2A CONFIGURATION	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 710	BV
2062 V-01	IA13	134,117		INTEGRATED VEHICLE CONFIG 3 (MODEL 32-OTS)	AEDC - SUPERSONIC WIND TUNNEL (A) - VA323	TJ
2062 V-02	IA13	134,118		INTEGRATED VEHICLE CONFIG. 3 (MODE L 32-OTS)	AEDC - SUPERSONIC WIND TUNNEL (A) - VA323	TJ
2062 V-03	IA13	141,801		INTEGRATED VEHICLE CONFIG. 3 (MODE L 32-OTS)	AEDC - SUPERSONIC WIND TUNNEL (A) - VA323	TJ
2063	IA37 IA48	128,788		INTEGRATED VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 579/580	88
2064 V-01	IA36	141,814		INTEGRATED SSV 2A,3A MODIFIED	CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL - T14-053	UF

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2064 V-02	IA36	141,816		INTEGRATED SSV 2A,3A MODIFIED	CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL - T14-053	UF
2065 V-01	IA12C	141,518		2A CONFIGURATION	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 710	BZ
2065 V-02	IA120	141,519		2A CONFIGURATION	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 710	BZ
2065 V-03	IA12C	141,520		2A CONFIGURATION	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 710	BZ
2070	LA23	128,787		JSC 040A ORBITER WITH EHOT AND 2 S RM	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 141	PU
2072	IA31FC	134,072		PRR BASELINE LAUNCH CONFIGURATION MCR 0074 BASELINE MODEL ELEMENTS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 573	90
2077 V-01	IA29 0A63	134,095		140A/B ORB., VEH. 4 ET, 2 SRB'S SHUTTLE ORBITER VENT PRESSURE MODE L 36-OTS	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB
2077 V-02	IA29	134,099		140A/B ORB., VEH. 4 ET, 2 SRB'S	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2077 V-03	OA63	134,100		140A/B ORB., VEH. 4 ET, 2 SRB'S	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB
2078	IA10	128,795		MODEL 32-OT WITH ORBITER, ET, SIMU LATED ENGINE PLUMES	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 169	B7
2084 V-01	IA14A	[illegible]		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1
2084 V-02	IA14A	134,444		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1
2084 V-03	IA14A	143,445		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1
2084 V-04	IA14A	143,446		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1
2084 V-05	IA14A	143,447		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1
2084 V-06	IA14A	143,448		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716	B1

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER		DATASET 2-CHARACTER DESCRIPTOR
2084 V-07	IA14A	143,449		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 716	-	B1
2084 V-08	IA14A	143,450		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 716	-	B1
2084 V-09	IA14A	141,501		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 716	-	B1
2084 V-10	IA14A	141,502		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 716	-	B1
2084 V-11	IA14A	141,503		SSV 140A/B LAUNCH	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) 716	-	B1
2085	OH10 IH2	167,344		SPACE SHUTTLE INTEGRATED VEHICLE P RESSURE MODEL 26-OTS	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL 171	-	R9
2093	IA37B	134,090		EXTERNAL TANK, T9 EXTERNAL TANK, T11	MSFC - 14-INCH TRISONIC WIND TUNNEL 585	-	93
2098	IH15	134,096		B10C5D7F4M3V5W87 B10C5D7F4M3V5W87T8	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL 172	-	B8
2099 V-01	OH4B	134,419		22-OT	AEDC - HYPERSONIC WIND TUNNEL (B) VA352	-	TK

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2099 V-02	OH4B	134,438		22-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - VA352	TK
2099 V-03	OH4B	134,439		22-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - VA352	TK
2100	OH3A OH3B	134,075		ORB.(VL70-000139)/ET (VL78-00041) AND ORB. ALONE RI ORBITER (VL70-000139)	AEDC - HYPERSONIC WIND TUNNEL (B) - VA289	TM
2105	IH17	144,594		ORBITER + EXTERNAL TANK, SSV MODEL 41-OTS EXTERNAL TANK ALONE, SSV MODEL 41-OTS	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 646/647	PR
2108	IA35 OA64	134,084		B26C9E26F8M7N25R5N116 B26C9E26F8M7N25R5N116S12T12	LARC - UNITARY PLAN WIND TUNNEL - 1063	Q4
2110	IH18	144,589		ORBITER CONFIGURATION 2A EXTERNAL TANK	LARC - FREON TUNNEL - 97-118	QM
2112	IA57	134,401		INTEGRATED VEHICLE (CONFIGURATION 3)	AEDC - SUPERSONIC WIND TUNNEL (A) - VA422	TL
2118	IA41	134,108		MATED INTEGRATED VEHICLE MODEL(67-OTS)	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 667	Q8
2119	IA42A IA42B	134,109		CONFIGURATION 4 MATED SSV (67-OTS)	LARC - UNITARY PLAN WIND TUNNEL - 1056/1073	Q6
2122	IA69	134,424		LAUNCH CONFIGURATION (MODEL 67-OTS)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 280	F3

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2123	IA53	141,504		LAUNCH CONFIGURATION LAUNCH CONFIGURATION WITH STRUTS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 588	96
2129 V-01	IA14B	141,522		SSV 140A/B LAUNCH	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 716	B3
2129 V-02	IA14B	141,523		SSV 140A/B LAUNCH	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 716	B3
2136 V-01	IH3	141,514		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-02	IH3	141,515		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-03	IH3	141,516		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-04	IH3	141,517		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2137 V-01, R-01	IA60	134,103		CONFIGURATION 3, MODEL 32-O)	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 108	H1
2138 V-01	IH4	144,608		0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1059	Q3

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2138 V-02	IH4	144,609		0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1059	Q3
2138 V-03	IH4	144,610		0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1059	Q3
2138 V-04	IH4	144,611		0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1059	Q3
2143	IA61A	144,587		INTEGRATED VEHICLE- CONFIGURATION 3 LINES	AEDC - SUPERSONIC WIND TUNNEL (A) - VA422	TQ
2144	IA68	134,427		LAUNCH CONFIGURATION	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 281	F4
2146	IS4	134,092		30-OTS	LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL - 547	HF
2148 V-01	IH20	134,440		22-OTS	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 185	EN
2148 V-02	IH20	134,441		22-OTS	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 185	EN
2153	IH1	151,377		ORBITER ALONE	LARC - UNITARY PLAN WIND TUNNEL - 1071	Q7
2156 V-01	IA17A	141,797		ORBITER WITH ET SEPARATING ISOLATED ORBITER	AEDC - HYPERSONIC WIND TUNNEL (B) - VA422	TR

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2156 V-02	IA17A	141,798		ORBITER WITH ET SEPARATING ISOLATED ORBITER	AEDC - HYPERSONIC WIND TUNNEL (B) - VA422	TR
2156 V-03	IA17A	141,799		ORBITER WITH ET SEPARATING ISOLATED ORBITER	AEDC - HYPERSONIC WIND TUNNEL (B) - VA422	TR
2157	IH19	141,822		ORBITER EXTERNAL TANK	LARC - HYPERSONIC NITROGEN TUNNEL - 28	OE
2158	IS6A	147,640		013, T9, S7	MSFC - 14-INCH TRISONIC WIND TUNNEL - 582	1B
2160	IA18	134,413		52-OT ET ALONE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 191	ES
2164 V-01	OH12 IH21	141,828		MODEL 37-OT (CONFIG. 3 ORB AND ET) CONFIGURATION 3 ORBITER	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - 173-100	UG
2164 V-02	OH12 IH21	141,829		MODEL 37-OT (CONFIG. 3 ORB AND ET) CONFIGURATION 3 ORBITER	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - 173-100	UG
2164 V-03	OH12 IH21	141,830		MODEL 37-OT (CONFIG. 3 ORB AND ET) CONFIGURATION 3 ORBITER	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - 173-100	UG
2166	IH16	141,534		ORB.+ET+SRB ET	LARC - UNITARY PLAN WIND TUNNEL - 1041	PO
2168	LA32		71945	THERMAL PROTECTION SYSTEM	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 97	QO

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TMX NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2169 V-01	IA81A	141,836		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-02	IA81A	141,837		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-03	IA81A	141,838		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-04	IA81A	141,839		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-05	IA81A	141,840		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-06	IA81A	141,841		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2169 V-07	IA81A	141,842		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 019	ET
2170 V-01	IA19	141,543		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 014	EU

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2170 V-02	IA19	141,544		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 014	EU
2170 V-03	IA19	141,545		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 014	EU
2173	IA8	134,107		6-OTS	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 711	BK
2174 V-01	IA33	141,811		VEHICLE 5 CONFIGURATION	MSFC - 14-INCH TRISONIC WIND TUNNEL - 594	1C
2174 V-02	IA33	141,812		VEHICLE 5 CONFIGURATION	MSFC - 14-INCH TRISONIC WIND TUNNEL - 594	1C
2174 V-03	IA33	141,813		VEHICLE 5 CONFIGURATION	MSFC - 14-INCH TRISONIC WIND TUNNEL - 594	1C
2175 V-01	IA70	134,431		MODEL 49-0 + 67TS INTEGRATED VEHICLE	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 282	F7
2175 V-02	IA70	134,432		MODEL 49-0 + 67TS INTEGRATED VEHICLE	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 282	F7
2175 V-03	IA70	134,433		MODEL 49-0 + 67TS INTEGRATED VEHICLE	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 282	F7

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2180 V-01	IH28	147,615		SSV ORBITER (MODEL(50-O) SSV EXT. TANK (MODEL 41-T)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 195	EV
2180 V-02	IH28	147,616		SSV ORBITER (MODEL(50-O) SSV EXT. TANK (MODEL 41-T)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 195	EV
2189	IA110	141,506		ORBITER 140A/B	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 052	E1
2192 V-01	IA87	141,541		O/ET; O/ET,SRB; SRB	AEDC - SUPERSONIC WIND TUNNEL (A) - 60A	TU
2192 V-02	IA87	141,542		O/ET; O/ET,SRB; SRB	AEDC - SUPERSONIC WIND TUNNEL (A) - 60A	TU
2194 V-01	IA81B	141,817		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 019	ET
2194 V-02	IA81B	141,818		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 019	ET
2194 V-03	IA81B	141,819		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 019	ET
2194 V-04	IA81B	141,820		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 019	ET

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2194 V-05	IA81B	141,821		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 019	ET
2199	LA43A/B LA43B		3315	ORBITER; ET; SRB	LARC - UNITARY PLAN WIND TUNNEL - 1074 1093	H5
2200	LA44		3336	ORBITER-140A/B; SRB; ET;	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 677	H6
2204	IA43	141,525		OTS,140A/B	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 693	HC
2206	IA44	141,528		0.010-SCALE OUTER MOLD LINE MODEL OF THE 140A/B CONFIGURATION	LARC - UNITARY PLAN WIND TUNNEL - 1088/1119	H8
2210	IH27	151,372		15-O VIII (FLAT-PLATE CARRIER)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 200	E3
2212 V-01	IA80	147,632		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 023	E4
2212 V-02	IA80	147,633		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 023	E4
2212 V-03	IA80	147,634		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 023	E4

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2212 V-04	IA80	147,635		LAUNCH VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 023	E4
2219 V-01	IA82C	144,597		LAUNCH VEHICLE 5	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 044	E5
2219 V-02	IA82C	144,598		LAUNCH VEHICLE 5	ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 044	E5
2224	LA56	147,650		72-OTS (ORB., ET, SRM)	LARC - NASA LANGLEY RESEARCH CENTER - 699 8-FOOT TRANSONIC PRESSURE TUNNEL -	HW
2226	IA61B	141,507		SPACE SHUTTLE VEHICLE CONFIGURATIO N 3 MODEL 32-OTS SPACE SHUTTLE ORBITER MODEL 52-O	AEDC - SUPERSONIC WIND TUNNEL (A) - VA422 21AA	V4
2227	IA71	141,806		ORB./W/ET AND SRB 740TS; ORB. W/ET AND SRB'S 770, 74TS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 610	1K
2230	IA17B	141,509		ORBITER-TANK MATED, MODEL 52-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - VA422	V3
2231 V-01	IA82B	144,601		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 044	E6

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2231 V-02	IA82B	144,602		LAUNCH VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 044	E6
2235	SA30F	141,810		SRB W/O HEAT SHIELD, W/HEAT SHIELD ON SKIRT, W/HEAT SHIELD ON NOZZLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 611	1J
2240	IH41A	151,054		60-OTS THERMOCOUPLE MODEL	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	V7
2242 V-01	IA111	141,831		52-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - A3A	V8
2242 V-02	IA111	144,588		52-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - A3A	V8
2248	IH48	144,599		60 OTS SPACE SHUTTLE VEHICLE 5	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 211	NB
2249	IH33	151,775		37-OT SPACE SHUTTLE ORBITER/EXTERN AL TANK- .01 SCALE	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I85-131 96-INCH HYPERSONIC SHOCK TUNNEL -	UJ
2253	IA125	144,833		77-O, 77-OTS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 622	1N
2255			62,444	SERIES-BURN, PARALLEL-BURN; 2 CANO PY CONFIGURATIONS;	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	NF

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2258 V-01	IA72	151,045		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-02	IA72	151,046		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-03	IA72	151,047		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-04	IA72	151,048		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-05	IA72	151,049		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-06	IA72	151,050		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-07	IA72	151,051		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE
2258 V-08	IA72	151,052		88-OTS MODIFIED W/OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 072	NE

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2258 V-09	IA72	151,053		88-OTS MODIFIED W/OMS PODS AND COLD AIR MPS AND SRB PLUME SIMULATION	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 072	NE
2272 V-01	IA114	151,077		SSV 3	AEDC - HYPERSONIC WIND TUNNEL (B) - C4A	VC
2272 V-02	IA114	151,078		SSV 3	AEDC - HYPERSONIC WIND TUNNEL (B) - C4A	VC
2274	FA14	144,593		74-OTS, VEH. 5 (ASCENT CONFIG.)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 600	1L
2282	IH34	151,407		PLUME SIMULATION MODEL 19-OTS	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL - 038	GF
2284 V-01	IS2A/B	151,035		INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 113 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) -	NK
2284 V-02	IS2A/B	151,036		INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 113 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) -	NK
2293	IA40	151,381		MODEL 75-OTS (72-0 WING, 140C MOD. FUSELAGE, ET, SRB)	AEDC - SUPERSONIC WIND TUNNEL (A) - K1A	VT

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2295 V-01	IH41B	151,069		ET ALONE T34 ORBITER ALONE B62C12E52F10M16R18V 8W116	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	VF
2295 V-02	IH41B	151,070		ET ALONE T34 ORBITER ALONE B62C12E52F10M16R18V 8W116	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	VF
2295 V-03	IH41B	151,071		ET ALONE T34 ORBITER ALONE B62C12E52F10M16R18V 8W116	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	VF
2295 V-04	IH41B	151,072		ET ALONE T34 ORBITER ALONE B62C12E52F10M16R18V 8W116	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	VF
2295 V-05	IH41B	151,073		ET ALONE T34 ORBITER ALONE B62C12E52F10M16R18V 8W116	AEDC - SUPERSONIC WIND TUNNEL (A) - A4A	VF
2299	LA80		3497	ORBITER/747 FERRY VEHICLE	LARC - HIGH SPEED 7 BY 10-FOOT TUNNEL - 999	JN
2306 V-01	IA135A/B/C	167,354		O - B26C9E44F9M16R5V8W116 T - AT28AT29AT30AT31AT32AT128FL10F L11FR10PT22PT23PT24PT25PT26PT27T37	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 144-1	NQ
2306 V-02	IA135A/B/C	167,355		O - B26C9E44F9M16R5V8W116 T - AT28AT29AT30AT31AT32AT128FL10F L11FR10PT22PT23PT24PT25PT26PT27T37	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 144-1	NQ
2306 V-03	IA135A/B/C	167,356		O - B26C9E44F9M16R5V8W116 T - AT28AT29AT30AT31AT32AT128FL10F L11FR10PT22PT23PT24PT25PT26PT27T37	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 144-1	NQ

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2308	IH5	147,636		19-OTS	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I81	UL
2312 V-01	IH47	151,075		VEHICLE 5, TO INCLUDE SRB ALONE AN D OTS (SPIKE NOSE ET)	AEDC - SUPERSONIC WIND TUNNEL (A) - J3A	VI
2312 V-02	IH47	151,076		VEHICLE 5, TO INCLUDE SRB ALONE AN D OTS (SPIKE NOSE ET)	AEDC - SUPERSONIC WIND TUNNEL (A) - J3A	VI
2315	IA141	147,623		0.010-SCALE VL70-000140C INTEGRATE D SPACE SHUTTLE LAUNCH VEHICLE	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 297	FK
2316	IA137	147,622		FULL 331 INCH DIAMETER FOREBODY AN 80% (264.8 INCH) OF FULL DIAMET ER FOREBODY	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 143-1	NY
2319	IH43	151,771		.01-SCALE SPACE SHUTTLE ORB/ET 59-OT	CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL - I89 96-INCH HYPERSONIC SHOCK TUNNEL -	UM
2323	IA94A	151,039		0.010-SCALE 72-OTS MODEL	LARC - UNITARY PLAN WIND TUNNEL - 1152	JK
2324	IA94B	151,040		0.010-SCALE 72-OTS MODEL	LARC - UNITARY PLAN WIND TUNNEL - 1177	JW
2326 V-01	IA93	151,037		0.010-SCALE 72-OTS MODEL	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 749	JJ
2326 V-02	IA93	151,038		0.010-SCALE 72-OTS MODEL	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 749	JJ

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2327 V-01	IA22	151,079		CONFIG. 102 ORBITER AND ET, DESIGN ATED MODEL 70-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - D9A	VK
2327 V-02	IA22	151,080		CONFIG. 102 ORBITER AND ET, DESIGN ATED MODEL 70-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - D9A	VK
2327 V-03	IA22	151,081		CONFIG. 102 ORBITER AND ET, DESIGN ATED MODEL 70-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - D9A	VK
2328	LA34 TND-8233			REUSABLE SURFACE INSULATION TILE G APS	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 105	OQ
2335	IA140A/B	151,783		VEHICLE 5 MODEL 74-OTS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 641 646	1Q
2346 V-01	IA142	151,385		75-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - K1A	VQ
2346 V-02	IA142	151,386		75-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - K1A	VQ
2346 V-03	IA142	151,387		75-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - K1A	VQ
2354 V-01	IA143	151,401	1	MODEL 75-OTS (WING)	AEDC - SUPERSONIC WIND TUNNEL (A) - P8A	VX
2354 V-02	IA143	151,402	2	MODEL 75-OTS (WING)	AEDC - SUPERSONIC WIND TUNNEL (A) - P8A	VX

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2354 V-03	IA143	151,403	3	MODEL 75-OTS (WING)	AEDC - SUPERSONIC WIND TUNNEL (A) - P8A	VX
2354 V-04	IA143	151,404	4	MODEL 75-OTS (WING)	AEDC - SUPERSONIC WIND TUNNEL (A) - P8A	VX
2357	IH68	167,655		INTEGRATED VEHICLE ORBITER PLUS TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 222	2D
2372	IH72	160,843		OTS TANK ALONE	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-R2A	VZ
2377 V-01	IA144	167,342		O - 140A/B/C/R SRB - MODIFIED VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 228-1	2N
2377 V-02	IA144	167,343		O - 140A/B/C/R SRB - MODIFIED VEHICLE 5	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 228-1	2N
2378	IA191	160,820		MODEL 112-T	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 412-1	AA
2384 V-01	IA148	151,412		OV102 + ET (MODEL 70-OT)	AEDC - HYPERSONIC WIND TUNNEL (B) - TOA	4D
2384 V-02	IA148	151,413		OV102 + ET (MODEL 70-OT)	AEDC - HYPERSONIC WIND TUNNEL (B) - TOA	4D

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2391	IA244	167,346		OTS - SINGLE STING IN ORBITER OTS - ET AND SRB ON SEPERATE STING	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 779	KE
2393 V-01	IH51A	167,679		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-02	IH51A	167,680		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-03	IH51A	167,681		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2393 V-04	IH51A	167,682		OT FLAT PLATE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 228-1	20
2397	LA113	167,347		O -140A/B/C/R T -MODIFIED VEHICLE 5	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 780	KH
2398 V-01	IA105A	160,850		B62C9E64W131M16N28N112R5V8FD3F9 T39	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4B
2398 V-02	IA105A	160,851		B62C9E64W131M16N28N112R5V8FD3F9 T39	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4B
2398 V-03	IA105A	160,852		B62C9E64W131M16N28N112R5V8FD3F9 T39	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4B

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2401	IS1A/B/C OS3	151,395		11-OTS (ORB, ET, 2 SRB'S)	ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY W IND TUNNEL - 705-1	2S
2403 V-01	IA156A	160,515		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4C
2403 V-02	IA156A	160,516		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4C
2403 V-03	IA156A	160,517		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 470	4C
2404 V-01	IA119	160,510		88-OTS-.02 SCALE OF THE INTEGRATED SPACE SHUTTLE VEHICLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 275-1	2R
2404 V-02	IA119	160,511		88-OTS-.02 SCALE OF THE INTEGRATED SPACE SHUTTLE VEHICLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 275-1	2R
2404 V-03	IA119	160,512		88-OTS-.02 SCALE OF THE INTEGRATED SPACE SHUTTLE VEHICLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 275-1	2R
2404 V-04	IA119	160,513		88-OTS-.02 SCALE OF THE INTEGRATED SPACE SHUTTLE VEHICLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 275-1	2R

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2406	IA181	167,348		B62,C12,E62,F10,M16,N28,R5,V8,W127 AT16,AT17,AT18,FL5,FL6,FL9,FR6,PT1 3,PT14,PT20,T20	MSFC - 14-INCH TRISONIC WIND TUNNEL - 649	1U
2407	IH73	167,374		B22C7F5M4V7W111 T8	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 233-1	2V
2408 V-01	IA156B	160,498		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 272	2T
2408 V-02	IA156B	160,499		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 272	2T
2408 V-03	IA156B	160,500		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27V29VT10VT11VT14VT17W13 1T39S27	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 272	2T
2412 V-01	IH90	167,386		60-OTS (B62C12E52F10M16R18V8W116T 38S26)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 234-1	2W
2412 V-02	IH90	167,387		60-OTS (B62C12E52F10M16R18V8W116T 38S26)	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 234-1	2W
2413 V-01	IA105B	160,858		B62C9E64W131M16N28R5V8FD3F9 T39S27	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 242-1	2U
2413 V-02	IA105B	160,859		B62C9E64W131M16N28R5V8FD3F9 T39S27	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 242-1	2U

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2416	IA603	160.824		LBM SSLV	MSFC - TRISONIC WIND TUNNEL - 668	6C
2418	IH100	151.414		WEDGE SHAPED MODEL TO HOLD DFI GAS TEMP. PROBE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 227	3Z
2422	FH15	151.767		30/10/40-DEGREE CONE OGIVE	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-20	4K
2428 V-01	IH11	160.523		84-OTS- .035 SCALE MODEL OF THE IN TEGRATED SPACE SHUTTLE VEHICLE	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 045	GI
2428 V-02	IH11	160.524		84-OTS- .035 SCALE MODEL OF THE IN TEGRATED SPACE SHUTTLE VEHICLE	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 045	GI
2428 V-03	IH11	160.525		84-OTS- .035 SCALE MODEL OF THE IN TEGRATED SPACE SHUTTLE VEHICLE	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 045	GI
2428 V-04	IH11	160.526		84-OTS- .035 SCALE MODEL OF THE IN TEGRATED SPACE SHUTTLE VEHICLE	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 045	GI
2429	IH51B	167.353		OT FLAT PLATE 580TS	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 239	3C
2431 V-01	IH85	151.793		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2431 V-02	IH85	151,794		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-03	IH85	151,795		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-04	IH85	151,796		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-05	IH85	151,797		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-06	IH85	151,798		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-07	IH85	151,799		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2431 V-08	IH85	151,800		OTS-T38S26B62C12M16W116E52V8R18F10 OT-T38B62C12M16W116E52V8R18F10	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-W5	4L
2435	IH39	151,415		INTEGRATED VEHICLE CONFIGURATION 5	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 041	GK
2437	FA25	151,766		MODEL 74-OTS MODEL 74-OTS WITH ORB. MOLD LINE C HANGES ON WING AND NOSE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 652	1X

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INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2438 V-01	IA138	160,855		PROPOSED VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 246-1	3D
2438 V-02	IA138	160,856		PROPOSED VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 246-1	3D
2438 V-03	IA138	160,857		PROPOSED VEHICLE 5	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 246-1	3D
2439	IA182	167,673		MODEL 47-OTS	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 517	4P
2440	IH83	151,765		SPACE SHUTTLE PLUME SIMULATION (MO DEL 19-OTS)	LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNN EL - 044	GZ
2444 V-01	IA183	160,488		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27VT10VT11VT12VT13VT14 VT15VT16VT17W131T39S27	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 519	4O
2444 V-02	IA183	160,489		B75C16E64F16FR22HG1M52N108N109N110 N111R20U1V27VT10VT11VT12VT13VT14 VT15VT16VT17W131T39S27	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 519	4O
2448 V-01	IH51C	160,519			ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 241	3F

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2448 V-02	IH51C	160,520			ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 241	3F
2449	IA132	160,497		EXTENAL OXYGEN HYDROGEN TANK FOREB ODY MODEL	AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T) - 505	4R
2452	IH99	167,383		SSV SRB NOSE	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 230	2P
2453	IH75	151,776		19-OTS-B64,C16,E63,F-14,M18,N92,N94 ,V23,W129,S22,N106,T33	CALSPAN - LUDWIEG TUBE 195-100	UQ
2456 V-01	IA184	160,486		0.03-SCALE SHUTTLE INTEGRATED VEHI CLE 47-OTS	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 347-1	3K
2456 V-02	IA184	160,487		0.03-SCALE SHUTTLE INTEGRATED VEHI CLE 47-OTS	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 347-1	3K
2457	IA180	160,813		EXTERNAL OXYGEN HYDROGEN TANK FORE BODY MODEL	LARC - UNITARY PLAN WIND TUNNEL - 1267	KV
2461	IH51D	167,677		MODEL 58-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 244	3N

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2462 V-01	IA131B/C	167,370		ET FOREBODY (T41)- LOUVERS OPEN, CT FAIRING AND GO2 LINE INSTALLED ET FOREBODY (T41)- LOUVERS OPEN, CT,FAIRING, AND GO2 LINE REMOVED	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 283-1 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	3E
2462 V-02	IA131B/C	167,371		ET FOREBODY (T41)- LOUVERS OPEN, CT FAIRING AND GO2 LINE INSTALLED ET FOREBODY (T41)- LOUVERS OPEN, CT,FAIRING, AND GO2 LINE REMOVED	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 283-1 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) -	3E
2464 V-06	IH102	160,833		B60C10 (83-0)	AEDC - SUPERSONIC WIND TUNNEL (A) - V41A-67	4W
2467	IH103	160,834		60-0T 56-0/60T	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 245	3P
2471	LA132	160,514		LAUNCH VEHICLE - 890TS	LARC - 16-FOOT TRANSONIC TUNNEL - 341	KW
2474	FA28	160,826		ORBITER ALONE LAUNCH CONFIGURATION (NO PROTUBERANCES ON ET)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 656	1Z
2475	LA140	160,509		LAUNCH VEHICLE (89-0TS)	LARC - 16-FOOT TRANSONIC TUNNEL - 342	KY
2480	IH104	167,657		ORBITER+TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 250	3W

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2481	IA602	167,377		OTS (MODEL 74) OTS + LBM	MSFC - 14-INCH TRISONIC WIND TUNNEL - 665	6B
2511 V-01	IA300	167,669		75-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 561-1	AZ
2511 V-02	IA300	167,670		75-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 561-1	AZ
2511 V-03	IA300	167,671		75-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 561-1	AZ

CARRIER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2201	CA3	160,854		BOEING 747 CARRIER (MODEL TE 1065)	UW - LOW SPEED WIND TUNNEL - 1136	GL
2211 V-01	CA5	141,800		0.03-SCALE AX 1319 I-1 (CARRIER) MODEL	TBCA - TRANSONIC WIND TUNNEL - 1431	GM
2211 V-02	CA5	141,803		0.03-SCALE AX 1319 I-1 (CARRIER) MODEL	TBCA - TRANSONIC WIND TUNNEL - 1431	GM
2211 V-03	CA5	141,804		0.03-SCALE AX-1319 I-1(CARRIER) MODEL	TBCA - TRANSONIC WIND TUNNEL - 1431	GM
2217 V-01	CA20	141,844		0.03-SCALE 45-0 MODIFIED SSV ORBITER 140A/B	TBCA - TRANSONIC WIND TUNNEL - 1431	GN
2217 V-02	CA20	141,845		0.03-SCALE 45-0 MODIFIED SSV ORBITER 140A/B	TBCA - TRANSONIC WIND TUNNEL - 1431	GN
2217 V-03	CA20	141,846		0.03-SCALE 45-0 MODIFIED SSV ORBITER 140A/B	TBCA - TRANSONIC WIND TUNNEL - 1431	GN
2236	CA11	141,835		BOEING 747 MATED WITH AN EXTERNAL TANK	UW - LOW SPEED WIND TUNNEL - 1146	GO
2243	CA23A	144,583		MODEL 48-0/AX1318I-1 0.0125 SCALE	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 080	E9
2262 V-01	CA6	147,630		CARRIER W/ ORB. ALONE, CARRIER ALONE, MATED 747/ORBITER	TBCA - TRANSONIC WIND TUNNEL - 1472	GP

CARRIER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER		DATASET 2-CHARACTER DESCRIPTOR
2262 V-02	CA6	147,631		CARRIER W/ ORB. ALONE, CARRIER ALO NE, MATED 747/ORBITER	TBCA - TRANSONIC WIND TUNNEL 1472	-	GP
2268 V-01	CA9 CA9P	151,396		BOEING AX1319P-1 CARRIER	TBCA - TRANSONIC WIND TUNNEL 1477	-	GQ
2268 V-02	CA9 CA9P	151,397		BOEING AX1319P-1 CARRIER	TBCA - TRANSONIC WIND TUNNEL 1477	-	GQ
2268 V-03	CA9 CA9P	151,398		BOEING AX1319P-1 CARRIER	TBCA - TRANSONIC WIND TUNNEL 1477	-	GQ
2268 V-04	CA9 CA9P	151,399		BOEING AX1319P-1 CARRIER	TBCA - TRANSONIC WIND TUNNEL 1477	-	GQ
2268 V-05	CA9 CA9P	151,400		BOEING AX1319P-1 CARRIER	TBCA - TRANSONIC WIND TUNNEL 1477	-	GQ
2273 V-01	CA26	144,612		AX1318I-1, 747/1, 747/4	LTV - HIGH SPEED WIND TUNNEL 559	-	FE
2273 V-02	CA26	144,613		AX1318I-1, 747/1, 747/4	LTV - HIGH SPEED WIND TUNNEL 559	-	FE
2273 V-03	CA26	144,614		AX1318I-1, 747/1, 747/4	LTV - HIGH SPEED WIND TUNNEL 559	-	FE
2273 V-04	CA26	144,615		AX1318I-1, 747/1, 747/4	LTV - HIGH SPEED WIND TUNNEL 559	-	FE

CARRIER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2273 V-05	CA26	144,616		AX1318I-1, 747/1, 747/4	LTV - HIGH SPEED WIND TUNNEL - 559	FE
2275 V-01	CA23B	144,603		0.0125-SCALE SSV ORBITER	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 120	NH
2275 V-02	CA23B	144,604		0.0125-SCALE SSV ORBITER	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 120	NH
2290 V-01	CA8	147,641		747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CONFIGURATIONS	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF
2290 V-02	CA8	147,642		747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CONFIGURATIONS	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF
2290 V-03	CA8	147,643		747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CONFIGURATIONS	LARC - V/STOL TRANSITION RESEARCH WIND TU NNEL - 129	JF
2307 V-01	CA14A	160,840		BOEING 747 CAM W/TYPE II MODIFICAT ION (MODEL TR-1007)	TBCA - TRANSONIC WIND TUNNEL - 1496 1497	GR
2307 V-02	CA14A	160,841		BOEING 747 CAM W/TYPE II MODIFICAT ION (MODEL TR-1007)	TBCA - TRANSONIC WIND TUNNEL - 1496 1497	GR
2332	CA13	151,373		ORBITER- TAILCONE OFF, TAILCONE ON -TC19,	ARC - 14-FOOT TRANSONIC WIND TUNNEL - 121	NZ

CARRIER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2338	CS3	147,639		AX1322D-3,ORBITER MODEL 8-0	UW - LOW SPEED WIND TUNNEL - 1170	GU
2341	CS4/5	147,638		747CAM/ORBITER	TBCA - TRANSONIC WIND TUNNEL - 1490/1493	GV
2347 V-01	CA15A	160,482		.04 SCALE 747-100	UW - LOW SP[illegible] WIND TUNNEL - 1173	GS
2348 V-01	CA15B	160,483		747-100 ALONE	UW - LOW SPEED WIND TUNNEL - 1178	GT
2349	CA17	151,379		CARRIER B29BW45N5857M2526T14Q12AT 115,1106,1V9,1,3FTS1	UW - LOW SPEED WIND TUNNEL - 1184	GW

EXTERNAL TANK DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2085	OH10 IH2	167,344			ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 171	B9
2133	IA58	134,110		EXTERNAL TANK	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 107	OK
2136 V-01	IH3	141,514		B17 C7 M4 F5 W103 E22 V7 R5	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-02	IH3	141,515		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-03	IH3	141,516		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2136 V-04	IH3	141,517		B17 C7 M4 F5 W103 E22 V7 R5 T10	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 178	EI
2145	TA1F	134,420		EXTERNAL TANK WITH PROTUBERANCES EXTERNAL TANK WITHOUT PROTUBERANCE S	MSFC - 14-INCH TRISONIC WIND TUNNEL - 583	99
2153	IH1	151,377		SRB ALONE	LARC - UNITARY PLAN WIND TUNNEL - 1071	07
2165 V-01	TA2F	141,823		EXTERNAL TANK WITH AND WITHOUT PRO TUBERANCES,0.003 SCALE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 596	1A
2165 V-02	TA2F	141,824		EXTERNAL TANK WITH AND WITHOUT PRO TUBERANCES,0.003 SCALE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 596	1A

EXTERNAL TANK DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2165 V-03	TA2F	141,825		EXTERNAL TANK WITH AND WITHOUT PRO TUBERANCES,0.003 SCALE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 596	1A
2165 V-04	TA2F	141,826		EXTERNAL TANK WITH AND WITHOUT PRO TUBERANCES,0.003 SCALE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 596	1A
2165 V-05	TA2F	141,827		EXTERNAL TANK WITH AND WITHOUT PRO TUBERANCES,0.003 SCALE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 596	1A
2181	TA9F	134,425		EXTERNAL TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 196	EY
2197	FH10	134,418		ET MODEL MCR0200	AEDC - HYPERVELOCITY WIND TUNNEL (F) - VA291	TX
2208 V-01	TA3F	144,590		MODEL NO. 470	MSFC - 14-INCH TRISONIC WIND TUNNEL - 609	1G
2208 V-02	TA3F	144,591		MODEL NO. 470	MSFC - 14-INCH TRISONIC WIND TUNNEL - 609	1G
2218	TH1F	151,367		EXTERNAL TANK	AEDC - HYPERVELOCITY WIND TUNNEL (F) - 25A	TY
2276	FH13	151,055		40-DEG NOSE-CLEAN(NO PROTUBERANCES) DOUBLE CONE(10-DEG-40-DEG)(NO PROT UBERANCES)	AEDC - SUPERSONIC WIND TUNNEL (A) - E1A	VD
2313 V-01	FH14	151,041		.0275 SCALE SPACE SHUTTLE EXTERNAL TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 215	NT

EXTERNAL TANK DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2313 V-02	FH14	151,042		.0275 SCALE SPACE SHUTTLE EXTERNAL TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 215	NT
2313 V-03	FH14	151,043		.0275 SCALE SPACE SHUTTLE EXTERNAL TANK	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 215	NT
2423	FH16	151,768		30,10,40 DEGREES CONICAL SPIKE FOR ET	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 237	3A

Table 5-1

Wind Tunnel Tests/DMS Data Processing Summary

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1002 / MA5 CR-128,750	AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF A .01925 SCALE MODEL NR ATP ORBITER AT MACH NUMBERS FROM 1.9 TO 4.63	NR ATP ORBITER	AERODYNAMIC STABILITY AND CONTROL OF NR ATP ORBITER CONFIGURATION	FORCE	0.01925 / 1.9 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	R. FOURNIER, B. SPENCER /LARC J. E. VAUGHN J. L. GLYNN -DMS	DMS-DR-2001 NOV., 1972
LARC - 8TPT - 626 / LA1 CR-128,752	RESULTS OF TRANSONIC TESTS IN THE NASA/LARC 8 FOOT PRESSURE TUNNEL ON A 0.015 SCALE MODEL NR-PRR SPACE SHUTTLE ORBITER	NR PRR ORBITER	TRANSONIC AERODYNAMIC CHARACTERISTICS	FORCE	0.015 / 0.3 - 1.3	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	R. MENNELL, B. SPENCER /NR R. SINGELLTON -DMS	DMS-DR-2002 MARCH, 1973
LARC - 22HT - 409 / MA2 CR-128,754	HYPERSONIC AERODYNAMIC CHARACTERISTICS OF NR-ATP ORBITER, ORBITER WITH EXTERNAL TANK, AND ASCENT CONFIGURATION	NR ATP ORBITER	HYPERSONIC AERODYNAMIC CHARACTERISTICS OF NR ATP ORBITER	FORCE	0.0045 / 20.3 -	LARC / LARC - 22-INCH HELIUM TUNNEL	G. C. ASHBY /LARC J. E. VAUGHN -DMS	DMS-DR-2003 APRIL, 1973
LTV - 1520SWT - S-081 / MA1 CR-120,082	LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF LOW ASPECT RATIO WING CONFIGURATIONS IN GROUND EFFECT FOR A MOVING AND STATIONARY GROUND SURFACE	MSC 040A ORBITER	ELEVON EFFECTIVENESS AND ALTERNATE CONFIGURATION GEOMETRIES IN PRESENCE OF GROUND EFFECT	FORCE	0 05 / 0 067-	MSC / LTV - 15-FOOT BY 20-FOOT SUBSONIC WIND TUNNEL	P. ROMERE /MSC J. E. VAUGHN W. M. HALE -DMS	DMS-DR-2004 NOV., 1972

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 555 / 0A1 CR-120,070	AERODYNAMIC STABI LITY, CONTROL EFF ECTIVENESS AND DR AG CHARACTERISTIC S OF A SHUTTLE OR BITER CONFIGURATI ON AT MACH NUMBER S FROM 0.6 TO 4.9 6	NR ATP BASELINE O RBITER	AERODYNAMIC STABI LITY AND CONTROL EFFECTIVENESS AND DRAG CHARACTERIS TICS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. RAMSEY /MSFC V. W. SPARKS J. L. GLYNN -DMS	DMS-DR-2005 NOV., 1972
MSFC - 14TWT - 556 / IA1A CR-120,088	AERODYNAMIC STATI C STABILITY AND C ONTROL EFFECTIVEN ESS OF A PARAMETR IC SHUTTLE LAUNCH CONFIGURATION	MSFC/NR PARAMETRI C LAUNCH VEHICLE	PERFORMANCE, STAB ILITY AND CONTROL CHARACTERISTICS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY /MSF C V. W. SPARKS J. L. GLYNN -DMS	DMS-DR-2006 DEC., 1972
ARC - 3.5HWT - 147 / OA4 CR-128,760	RESULTS OF INVEST IGATIONS ON A 0.0 15 SCALE MODEL NO RTH AMERICAN ROCK WELL SPACE SHUTTL E ORBITER IN THE NASA/ARC 3.5 FOOT HYPERSONIC WIND TUNNEL	NR SSV ORBITER	STATIC STABILITY AND TRIM CAPABILI TY, COMPONENT INC REMENTAL EFFECTS	FORCE	0.015 / 7.3 -	ARC / ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	B. CAMERON, C. W. LAMONT /NR T. L. MULKEY W. R. MORGAN -DMS	DMS-DR-2007 MARCH, 1973
LARC - CFHT - 89 / MA4 CR-128,751	STATIC STABILITY AND PERFORMANCE C HARACTERISTICS OF THE A.T.P. ORBIT ER AT M=10.3	NR ATP ORBITER	AERODYNAMIC STABI LITY AND PERFORMA NCE AT HYPERSONIC MACH NO. OF 10	FORCE	0.0075 / 10.3 -	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	T. BLACKSTOCK /LA RC V. W. SPARKS J. R. ZILER -DMS	DMS-DR-2008 JAN., 1973
LARC - CFHT - 89 / MA4 CR-128,751	STATIC STABILITY AND PERFORMANCE C HARACTERISTICS OF THE A.T.P. ORBIT ER AT M=10.3	NR ATP ORBITER	AERODYNAMIC STABI LITY AND PERFORMA NCE AT HYPERSONIC MACH NO. OF 10	FORCE	0.0075 / 10.3 -	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	T. BLACKSTOCK /LA RC V. W. SPARKS J. R. ZILER -DMS	DMS-DR-2008 REVISION 01 MAY, 1973

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 66SWT - 650 / OA3 CR-128,761	AERODYNAMIC CHARACTERISTICS OF THE ROCKWELL INTERNATIONAL ORBITER OA3 AT MACH NUMBERS FROM 0.6 TO 2.0	SHUTTLE ORBITER OA3	GEOMETRIC VARIATION, LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY EFFECTS	FORCE	.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL	B. CAMERON, J. CAMPBELL, T.PAINE/RI B. J. FRICKEN -DMS	DMS-DR-2009 JUNE, 1973
MSFC - 14TWT - 545 / IA1B CR-120,060	DETERMINATION OF THE AERODYNAMIC INTERFERENCE BETWEEN THE SPACE SHUTTLE ORBITER, EXTERNAL TANK, AND SOLID ROCKET BOOSTER ON A 0.004 SCALE ASCENT CONFIGURATION	NR ATP ORBITER/TANK AND SRMS ON AND OFF	AERODYNAMIC CHARACTERISTICS DURING SEPARATION	FORCE	0.004 / 0.60 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. RAMSEY / MSFC - R. BUCHHOLZ /LMSC - E. ALLEN /RI - J. DEHART/NSI V. W. SPARKS J. R. ZILER -DMS	DMS-DR-2010 MAY, 1973
MSFC - 14TWT - 558 / MA9F CR-120,089	SPACE SHUTTLE (ATP CONFIGURATION) ABORT STAGING INVESTIGATION	NR ATP ORBITER/EXTERNAL TANK AND SRBS	BASELINE SEPARATION	FORCE	0.004 / 0.9 - 2.0	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	J. RAMPY /NSI - K. BLACKWELL / MSFC - E. ALLEN /RI - I. FOSSLER/MSC V. W. SPARKS J. R. ZILER -DMS	DMS-DR-2011 APRIL, 1973
MSFC - 14TWT - 554 / SA1F CR-120,090	AERODYNAMIC CHARACTERISTICS OF A 162-INCH DIAMETER SOLID ROCKET BOOSTER WITH AND WITHOUT STRAKES	SRB(PRR)	DETERMINE STATIC AERODYNAMIC CHARACTERISTICS OF 162-INCH DIAMETER SRB(PRR) WITH AND WITHOUT STRAKES	FORCE	0.0049 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	JOSH JOHNSON /MSFC - W. D. RADFORD/NSI - J. RAMPY /NSI V. W. SPARKS J. R. ZILER -DMS	DMS-DR-2012 APRIL, 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 616 / IA2 CR-128,762	EFFECT OF GASEOUS AND SOLID SIMULA TED JET PLUMES ON AN 040A SPACE SHUTTLE LAUNCH CO NFIGURATION AT MA CH NUMBERS FROM 1 .6 TO 2.2	SHUTTLE ORBITER/T ANK SRM (N-040A)	PLUME EFFECTS ON STABILITY AND CON TROL CHARACTERIST ICS	FORCE	0.019 / 1.6 - 2.2	ARC / ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	J.B.DODS,JR.,/ARC /ET AL V. W. SPARKS B. J. FRICKEN -DMS	DMS-DR-2013 FEB., 1974
LARC - UPWT - 1007 / OA7 CR-128,753	RESULTS OF SUPERS ONIC TESTS IN THE LARC UNITARY PLA N WIND TUNNEL ON A .015 SCALE MODE L NR-PRR SPACE SH UTTLE ORBITER	NR PRR-SSV ORBITE R	SUPERSONIC AERODY NAMIC CHARACTERIS TICS CONTROL EFFECTIVE NESS MODEL COMPONENT E FFECTS WING AREA-THICKNE SS SURVEYS	FORCE	0.015 / 2.5 - 4.6	LARC / LARC - UNITARY PLAN W IND TUNNEL	B. SPENCER, R. ME NNELL /NR J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2014 MARCH, 1973
LTV - HSWT - 458 / IA4 CR-120,091	AERODYNAMIC RESUL TS OF SEPARATION TESTS IN THE VOUG HT AERONAUTICS 4X 4FT HSWT ON A .00 75 SCALE ROCKWELL INTERNATIONAL-AT P SHUTTLE INTEGRA TED VEHICLE	NASA SSV ORBITER ON NR EOHT WITH S INGLE BSRM	EFFECTS OF BSRM S EPARATION ON LONG ITUDINAL AND LATE RAL-DIRECTIONAL S TABILITY AND CONT ROL CHARACTERISTI CS	FORCE	0.0075 / 2.4 - 4.39	LTV / MSC / LTV - HIGH SPEED WIN D TUNNEL	P. ROMERE/JSC, C. ZIEGLER, VSD J. RILEY, J.S. PR IGGE /ROCKWELL J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2015 VOLUME 01 JULY, 1973
LTV - HSWT - 458 / IA4 CR-120,091	AERODYNAMIC RESUL TS OF SEPARATION TESTS ON THE VOUG HT AERONAUTICS 4F T X 4FT HSWT ON A .0075 SCALE ROCK WELL INTERNATIONA L-ATP SHUTTLE INT EGRATED VEHICLE	NASA SSV ORBITER ON NR EOHT WITH S INGLE BSRM	EFFECTS OF BSRM S EPARATION ON LONG ITUDINAL AND LATE RAL-DIRECTIONAL S TABILITY AND CONT ROL CHARACTERISTI CS	FORCE	0.0075 / 2.4 - 4.39	MSC / LTV - HIGH SPEED WIN D TUNNEL	P. ROMERE/JSC, C. ZIEGLER, VSD J. RILEY, J. S. P RIGGE/RI J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2015 VOLUME 02 JULY, 1973

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 689 / OA2 CR-120,092	RESULTS OF INVESTIGATIONS ON A 0.0405 SCALE MODEL ATP VERSION OF THE NR-SSV ORBITER IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL	NR ATP ORBITER	SUBSONIC AERODYNAMIC CHARACTERISTICS	FORCE	0.0405 / 0.165-0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /NR R. SINGELLTON -DMS	DMS-DR-2016 APRIL, 1973
NRLAD - LSWT - 690 / OA5 CR-123,851	RESULTS OF INVESTIGATIONS ON A 0.0405 SCALE MODEL PRR VERSION OF THE NR-SSV ORBITER IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL	NR ATP ORBITER	SUBSONIC AERODYNAMIC CHARACTERISTICS	FORCE	0.0405 / 0.165-0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. KINGSLAND /NR R. SINGELLTON -DMS	DMS-DR-2017 APRIL, 1973
NRLAD - LSWT - 693 / IA3 CR-128,755	CROSS WIND LOADS INVESTIGATION OF A .01925 SCALE MODEL OF THE ATP-SSV LAUNCH CONFIGURATION	ATP LAUNCH CONFIGURATION	CROSSWIND LOADS	FORCE	0.01925 / 0.069-0.25	NR / NRLAD - LOW SPEED WIND TUNNEL	L.S. KATOW /RI T. L. MULKEY S. W. BROWN -DMS	DMS-DR-2018 JUNE, 1973
NRLAD - LSWT - 694 / OA6 CR-128,756	LOW SPEED LONGITUDINAL AND LATERAL STABILITY CHARACTERISTICS OF A PR PRR SHUTTLE ORBITER CONFIGURATION	ATP AND PRR ORBITER	INVESTIGATE CONFIGURATION VARIABLES TO IMPROVE TOUCHDOWN LIFT CAPABILITIES	FORCE	0.0405 / 0.165-0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND/ROCKWELL T. L. MULKEY D. A. SARVER -DMS	DMS-DR-2019 JUNE, 1973
NRLAD - LSWT - 696 / OA9 CR-128,757	LOW SPEED INVESTIGATION OF THE PRR PLANFORM WING BOTH IN AND OUT OF GROUND EFFECT	PRR ORBITER	OPTIMIZE PRR PLANFORM WING IN AND OUT OF GROUND EFFECT	FORCE	0.0405 / 0.16 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND, L. KATOW /RI D. A. SARVER -DMS	DMS-DR-2020 JUNE, 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 699 / OA45 CR-128,758	PRESSURE LOADS AND AERODYNAMIC FORCE INFORMATION FOR THE -89A SPACE SHUTTLE ORBITER CONFIGURATION	-89A ORBITER	PRESSURE LOADS DATA IN GROUND EFFECT	PRESSURE	0.2 - 0.2	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKWELL H. C. ZIMMERLE -DMS	DMS-DR-2021 VOLUME 01 NOV., 1973
NRLAD - LSWT - 699 / OA45 CR-128,758	PRESSURE LOADS AND AERODYNAMIC FORCE INFORMATION FOR THE -89A SPACE SHUTTLE ORBITER CONFIGURATION	-89A ORBITER	PRESSURE LOADS DATA IN GROUND EFFECT	PRESSURE	0.2 - 0.2	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKWELL H. C. ZIMMERLE -DMS	DMS-DR-2021 VOLUME 02 OCT., 1973
NRLAD - LSWT - 698 / OA10 CR-128,759	AERODYNAMIC CHARACTERISTICS OF THE ROCKWELL INTERNATIONAL -89B SPACE SHUTTLE ORBITER CONFIGURATION	RI -89B ORBITER	LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY LEVELS	FORCE	0.0405 / 0.16 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND / RI T. L. MULKEY S. W. BROWN -DMS	DMS-DR-2022 JUNE, 1973
LARC - 22HT - 411 / LA2 CR-128,763	STATIC AERODYNAMIC CHARACTERISTICS AND OIL FLOW AND ELECTRON BEAM RESULTS OF A 0.005 SCALE MODEL LANGLEY CONCEPT SPACE SHUTTLE ORBITER (LO-100) AT A MACH NUMBER OF 20.3	LO-100 ORBITER	DETERMINE HYPERSONIC PERFORMANCE, STATIC STABILITY AND CONTROL EFFECTIVENESS AND EXAMINE FLOW ABOUT THE LO-100 ORBITER	FORCE	0.0050 / 20.30- 20.30	LARC / LARC - 22-INCH HELIUM TUNNEL	D. STONE /LARC V. W. SPARKS D. A. SARVER -DMS	DMS-DR-2023 JUNE, 1973
ARC - 11TWT - 686 / IA7 CR-128,766	WIND TUNNEL TEST OF THE 0.019 (040A) JET PLUME SPACE SHUTTLE INTEGRATED VEHICLE IN THE ARC 11-FOOT UNITARY WIND TUNNEL	040A SPACE SHUTTLE INTEGRATED VEHICLE	STABILITY AND CONTROL DATA, WING PRESSURE AND NOZZLE PRESSURE DISTRIBUTIONS	FORCE PRESSURE	0.019 / 0.9 - 1.2	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. B. HARDIN /RI T. L. MULKEY W. M. HALE -DMS	DMS-DR-2024 AUGUST, 1973

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 565 / SA3F CR-128,767	AERODYNAMIC CHARA CTERISTICS OF A 1 42-INCH DIAMETER SOLID ROCKET BOOSTER WITH AND WITHOUT STRAKES	142-INCH DIAMETER SRB WITH AND WIT HOUT STRAKES	DETERMINATION OF STATIC AERODYNAMI C FORCES AND MOME NTS WITH COMPONEN T BUILD-UP	FORCE	0.00563 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	JOSH D. JOHNSON / NASA/MSFC WALTER D. RADFORD /NSI V. W. SPARKS A. T. KAVANAUGH -DMS	DMS-DR-2025 MAY, 1973
MSFC - 14TWT - 566 / IA31F CR-128,778	ARODYNAMIC INVEST IGATIONS ON A 0.0 04 SCALE MODEL MC R 0074 BASELINE SPACE SH UTTLE LAUNCH VEHI CLE AT MACH NO. B ETWEEN 0.6 AND 4.96	MCR 0074 BASELINE LAUNCH VEHICLE	DETERMINE THE EFF ECTS OF MODEL PAR AMETRIC VARIATION S ON AERODYNAMIC STATIC STABILITY CHARACTERISTCS OV ER A MACH NO. RAN GE OF 0.6 TO 4.96	FORCE	0.004 / 0.6 2- .2	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	PAUL RAMSEY/MSFC - M. K. ROBERTSON /NORTHROP V. W. SPARKS B. W. MYERS -DMS	DMS-DR-2026 SEPT., 1973
MSFC - 14TWT - 567 / IA32FB CR-141,807	AN INVESTIGATION IN THE NASA MSFC 14-INCH TRISONIC WIND TUNNEL TO DE TERMINE THE PRESS URE DISTRIBUTION OVER THE COMPONEN TS OF A 0.004 SCA LE VERSION OF THE ROCKWELL MCR 007 4 BASELINE SHUTTL E ASCENT CONFIGUR ATION (IA32FB)	ORB. WITH ET AND 2 SRB'S		PRESSURE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY /MSF C V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2027 VOLUME 01 SEPT., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 567 / IA32FB CR-141,808	AN INVESTIGATION IN THE NASA MSFC 14-INCH TRISONIC WIND TUNNEL TO DETERMINE THE PRESSURE DISTRIBUTION OVER THE COMPONENTS OF A 0.004 SCALE VERSION OF THE ROCKWELL MCR 0074 BASELINE SHUTTLE ASCENT CONFIGURATION (IA32F)	ROB. WITH ET AND 2 SRB'S	DETERMINE PRESSURE DISTRIBUTION OVER ET, SRB, ORBITER WING	PRESSURE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. E. RAMSEY / MSFC V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2027 VOLUME 02 OCT., 1975
MSFC - 14TWT - 567 / IA32FB CR-141,809	AN INVESTIGATION IN THE NASA MSFC 14-INCH TRISONIC WIND TUNNEL TO DETERMINE THE PRESSURE DISTRIBUTION OVER THE COMPONENTS OF A 0.004 SCALE VERSION OF THE ROCKWELL MCR 0074 BASELINE SHUTTLE ASCENT CONFIGURATION (IA32F)	ORB. WITH 2 SRB'S	DETERMINE PRESSURE DISTRIBUTION OVER ET, SRB, ORBITER WING	PRESSURE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. E. RAMSEY/MSFC V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2027 VOLUME 03 OCT., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 570 / IA31FB CR-134,434	TRIPLE BALANCE TE ST OF THE PRR BAS ELINE SPACE SHUTT LE CONFIGURATION (TWT 570)	MCR 0074 ORBITER LAUNCH	TO OBTAIN FORCE A ND MOMENT DATA FO R THE MCR 0074 OR BITER (PRR BASELI NE), EXTERNAL TAN K, AND SOLID ROCK ET BOOSTER IN THE LAUNCH CONFIGURA TION AND TO IDENT IFY KEY SIMULATIO N PARAMETERS TO B E USED IN LAUNCH VEHICLE WIND TUNN EL TESTS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P.RAMSEY/NASA T.DAVIS/NSI V. W. SPARKS R. B. LOWE -DMS	DMS-DR-2028 VOLUME 01 DEC., 1974
MSFC - 14TWT - 570 / IA31FB CR-134,436	TRIPLE BALANCE TE ST OF THE PRR BAS ELINE SPACE SHUTT LE CONFIGURATION (TWT 570)	MCR 0074 ORBITER LAUNCH	TO OBTAIN FORCE A ND MOMENT DATA FO R THE MCR 0074 OR BITER (PRR BASELI NE), EXTERNAL TAN K, AND SOLID ROCK ET BOOSTER IN THE LAUNCH CONFIGURA TION AND TO IDENT IFY KEY SIMULATIO N PARAMETERS TO B E USED IN LAUNCH VEHICLE WIND TUNN EL TESTS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. RAMSEY/NASA T. DAVIS/NSI V. W. SPARKS R. B. LOWE -DMS	DMS-DR-2028 VOLUME 02 DEC., 1974
MSFC - 14TWT - 568 / OA47 CR-128,765	RESULTS OF A STAT IC STABILITY AND CONTROL EFFECTIVE NESS INVESTIGATIO N OF A 0.004 SCAL E 2A ORBITER IN T HE MARSHALL SPACE FLIGHT CENTER TR ISONIC WIND TUNNE L (MACH=0.6-4.96)	2A ORBITER 2A ORBITER WITH S YMETRICAL WING ORBITER BUILDUP	DETERMINE STATIC STABILITY AND CON TROL EFFECTIVENES S	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	E.C. ALLEN, T. TU TTLE, T. FOSTER / ROCKWELL J. E. VAUGHN W. R. MORGAN -DMS	DMS-DR-2029 MAY, 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 700 / OA14 CR-128,768	AERODYNAMIC CHARA- CTERISTICS OF VAR- IOUS AFT-END CONF- IGURATIONS OF THE ROCKWELL INTERNA- TIONAL -89B SPACE SHUTTLE ORBITER	-89B ROCKWELL INT- ERNATIONAL SPACE SHUTTLE ORBITER	AFT-END CONFIGURA- TION EFFECTS ON L- IFT, DRAG AND PIT- CHING MOMENT	FORCE	0.0405 / 0.16 -	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND / RI T. L. MULKEY W. M. HALE -DMS	DMS-DR-[illegible] AUGUST, [illegible]973
LARC - CFHT - 85 / LA3 CR-128,769	HYPERSONIC PERFOR- MANCE, STABILITY AND CONTROL CHARA- CTERISTICS OF A O- .010 SCALE MODEL OF A LANGLEY CONC- EPT SPACE SHUTTLE ORBITER	LO-100 ORBITER	ELEVON AND BODY F- LAP EFFECTIVENESS	FORCE	0.010 / 10.3 -	LARC / LARC - CONTINUOUS-FLO- W HYPERSONIC T- UNNEL	PETER T. BERNOT / LARC V. W. SPARKS S. W. BROWN -DMS	DMS-DR-2031 JUNE, 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T- HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL- E MODEL OF THE SP- ACE SHUTTLE VEHICLE 2A TO DET- ERMINE AERODYNAMI- C LOADS	17-OTS	TO OBTAIN AERODYN- AMIC LOADS ON LAU- NCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO- NIC WIND TUNNE- L (UNITARY) 8-FOOT BY 7-FO- OT SUPERSONIC WIND TUNNEL (U- NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 01 NOV., 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T- HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL- E MODEL OF THE SP- ACE SHUTTLE VEHICLE 2A TO DET- ERMINE AERODYNAMI- C LOADS	17-OTS	TO OBTAIN AERODYN- AMIC LOADS ON LAU- NCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO- NIC WIND TUNNE- L (UNITARY) 8-FOOT BY 7-FO- OT SUPERSONIC WIND TUNNEL (U- NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 02 NOV., 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 03 OCT., 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 04 DEC., 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 05 DEC., 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL E MODEL OF THE SP ACE SHUTTLE VEHICLE 2A TO DET ERMINE AERODYNAMI C LOADS	17-OTS	TO OBTAIN AERODYN AMIC LOADS ON LAU NCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 06 DEC., 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL E MODEL OF THE SP ACE SHUTTLE VEHICLE 2A TO DET ERMINE AERODYNAMI C LOADS	17-OTS	TO OBTAIN AERODYN AMIC LOADS ON LAU NCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 07 DEC., 1973
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL E MODEL OF THE SP ACE SHUTTLE VEHICLE 2A TO DET ERMINE AERODYNAMI C LOADS	17-OTS	TO OBTAIN AERODYN AMIC LOADS ON LAU NCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 08 DEC., 1973

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF TESTS	17-OTS	TO OBTAIN AERODYN	PRESSURE	0.030 /	ARC /	GILLENS, SPANGLER	DMS-DR-2032
11TWT -	OA12 AND IA9 IN T		AMIC LOADS ON LAU		0.6 -	ARC -	/RI	VOLUME 09
707 /	HE AMES RESEARCH		NCH VEHICLE		1.4	11-FOOT TRANSO	H. C. ZIMMERLE	JAN., 1974
87SWT -	CENTER UNITARY					NIC WIND TUNNE	-DMS	
707 /	PLAN WIND TUNNELS					L (UNITARY)		
IA9A,B,C	ON AN 0.030-SCAL					8-FOOT BY 7-FO		
OA12A,C	E MODEL OF THE SP					OT SUPERSONIC		
CR-128,794	ACE SHUTTLE					WIND TUNNEL (U		
	VEHICLE 2A TO DET					NITARY)		
	ERMINE AERODYNAMI							
	C LOADS							
ARC -	RESULTS OF TESTS	17-OTS	TO OBTAIN AERODYN	PRESSURE	0.030 /	ARC /	GILLENS, SPANGLER	DMS-DR-2032
11TWT -	OA12 AND IA9 IN T		AMIC LOADS ON LAU		0.6 -	ARC -	/RI	VOLUME 10
707 /	HE AMES RESEARCH		NCH VEHICLE		1.4	11-FOOT TRANSO	H. C. ZIMMERLE	JAN., 1974
87SWT -	CENTER UNITARY					NIC WIND TUNNE	-DMS	
707 /	PLAN WIND TUNNELS					L (UNITARY)		
IA9A,B,C	ON AN 0.030-SCAL					8-FOOT BY 7-FO		
OA12A,C	E MODEL OF THE SP					OT SUPERSONIC		
CR-128,794	ACE SHUTTLE					WIND TUNNEL (U		
	VEHICLE 2A TO DET					NITARY)		
	ERMINE AERODYNAMI							
	C LOADS							
ARC -	RESULTS OF TESTS	17-OTS	TO OBTAIN AERODYN	PRESSURE	0.030 /	ARC /	GILLENS, SPANGLER	DMS-DR-2032
11TWT -	OA12 AND IA9 IN T		AMIC LOADS ON LAU		0.6 -	ARC -	/RI	VOLUME 11
707 /	HE AMES RESEARCH		NCH VEHICLE		1.4	11-FOOT TRANSO	H. C. ZIMMERLE	JAN., 1974
87SWT -	CENTER UNITARY					NIC WIND TUNNE	-DMS	
707 /	PLAN WIND TUNNELS					L (UNITARY)		
IA9A,B,C	ON AN 0.030-SCAL					8-FOOT BY 7-FO		
OA12A,C	E MODEL OF THE SP					OT SUPERSONIC		
CR-128,794	ACE SHUTTLE					WIND TUNNEL (U		
	VEHICLE 2A TO DET					NITARY)		
	ERMINE AERODYNAMI							
	C LOADS							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 12 JAN., 1974
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 13 MARCH, 1974
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 14 MARCH, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 15 MARCH, 1974
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 16 APRIL, 1974
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 17 APRIL, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 707 / 87SWT - 707 / IA9A,B,C OA12A,C CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN T HE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCAL E MODEL OF THE SP ACE SHUTTLE VEHICLE 2A TO DET ERMINE AERODYNAMI C LOADS	17-OTS	TO OBTAIN AERODYN AMIC LOADS ON LAU NCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 18 MAY, 1974
LARC - UPWT - 995 / 1014 / LA4 CR-128,772	SUPERSONIC STABIL ITY AND CONTROL C HARACTERISTICS OF A LANGLEY CONCEP T SPACE SHUTTLE O RBITER AT MACH 1. 5 TO 4.63	LO-100 ORBITER	SUPERSONIC STABIL ITY CHARACTERISTI CS	FORCE	0.01 / 1.5 - 4.63	LARC / LARC - UNITARY PLAN W IND TUNNEL	D.R.STONE/LARC,B. SPENCER/NR R. SINGELLTON -DMS	DMS-DR-2033 JULY, 1973
LARC - 22HT - 405 / LA22 CR-128,764	AERODYNAMIC AND F LOW VISUALIZATION STUDIES ON A SPA CE SHUTTLE CONCEP T WITH A DOUBLE D ELTA WING ORBITER AT A MACH NUMBER OF 20.3	DOUBLE DELTA WING ORBITER	LONGITUDINAL AND LATERAL-DIRECTION AL CHARACTERISTIC S, AND CONTROL EF FECTIVENESS AS WE LL AS FLOW VISUAL IZATION STUDIES	FORCE	0.004 / 20.3 -	LARC / LARC - 22-INCH HELIUM TUNNEL	W.C. WOODS, DAVID R. STONE, JAMES P. ARRINGTON /LAR C J. E. VAUGHN S. W. BROWN -DMS	DMS-DR-2034 JULY, 1973
ARC - 3.5HWT - 158 / OH2A OH2B CR-134,077	THERMAL PROTECTIO N SYSTEM GAP HEAT ING RATES OF THE ROCKWELL INTERNAT IONAL FLAT PLATE HEAT TRANSFER MOD EL	THERMAL PROTECTIO N SYSTEM	TO OBTAIN AERODYN AMIC HEATING RATE DATA IN AND AROU ND GAPS AT THE TPS	HEAT-TRANS	1.0 / 5.1 - 5.1	ARC / ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	T. F. FOSTER, W. J. GRIFALL/RI W. K. LOCKMAN/ARC D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2035 APRIL, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 22HT - 413 / LA5 CR-128,775	AERODYNAMIC AND FLOW-VISUALIZATION STUDIES ASSOCIATED WITH VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS AT A MACH NUMBER OF 20.3	LARC LO-100 ORBITER	DEFINE THE EFFECTS OF WING-FILLET AND WING LEADING-EDGE SWEEP ANGLES AT HYPERSONIC SPEEDS	FORCE	.0040 / 20.3	LARC / LARC - 22-INCH HELIUM TUNNEL	DAVID R. STONE /NASA LARC D. E. POUCHER -DMS	DMS-DR-2036 AUGUST, 1973
LTV - HSWT - 488 / OA84 CR-134,405	RESULTS OF INVESTIGATIONS ON A 0.015-SCALE 140A/B CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL (49-O) IN THE LTV 4 BY 4-FOOT HIGH SPEED WIND TUNNEL	140A/B ORBITER 140A/B ORBITER WITHOUT VERTICAL TAIL 140A/B ORBITER WITHOUT VERTICAL TAIL AND WING	TO DETERMINE LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS FOR THE UPDATED SSV CONFIGURATION	FORCE	0.015 / 0.6 - 4.6	R.I. / LTV - HIGH SPEED WIND TUNNEL	V. ESPARZA /ROCKWELL INTERNATIONAL W.R. EMBURY /ROCKWELL INTERNATIONAL D. A. SARVER V. W. SPARKS -DMS	DMS-DR-2037 SEPT., 1974
NRLAD - LSWT - 701 / OA16 CR-128,793	RESULTS OF LOW SPEED WIND TUNNEL TESTS ON A .0405 SCALE MODEL ROCKWELL SPACE SHUTTLE ORBITER TESTED BOTH IN FREE AIR AND IN THE PRESENCE OF A GROUND PLANE	NR ORBITER	INVESTIGATE AERODYNAMIC AND PROPULSION EFFECTS OF VARIOUS AIR BREATHING ENGINE SYSTEMS IN FORCED AIR AND IN THE PRESENCE OF THE GROUND	FORCE	0.0405 / 0.12 - 0.20	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL, B. CAMERON/ROCKWELL INTERNATIONAL J. E. VAUGHN J. R. ZILER -DMS	DMS-DR-2038 FEB., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 571 / IA6A CR-134,071	RESULTS OF WIND T UNNEL TESTS AT MA CH 5 ON THE .004 SCALE MODEL 2A CO NFIGURATION SPACE SHUTTLE TO DETER MINE PROXIMITY EF FECTS AND ORBITER CONTROL EFFECTIVE NESS DURING ORBIT ER/EXTERNAL TANK ABORT SEPARATION	MODEL 2A ORBITER AND EXTERNAL TANK	DETERMINE PROXIMI TY EFFECTS ON THE AERODYNAMIC FORC ES AND MOMENTS EX PERIENCED BY VEHI CLE 2A CONFIGURAT ION SHUTTLE ORBIT ER AND EXTERNAL T ANK DURING AND AB ORT SEPARATION	FORCE	.004 / 5.0 - 5.0	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	W. P. GARTON /ROC KWELL J. E. VAUGHN A. T. KAVANAUGH -DMS	DMS-DR-2039 MARCH, 1974
LARC - 8TPT - 643 / LA6 CR-128,773	SURFACE ROUGHNESS EFFECTS ON THE T RANSONIC AERODYNA MICS OF THE ROCKW ELL INTERNATIONAL 089B-139 ORBITER	NAR 089-B-139 ORB ITER	SURFACE ROUGHNESS EFFECTS ON TRANS ONIC AERODYNAMICS	FORCE	0.0188 / .35- 1.2	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	G.M. WARE, B. SPE NCER /LARC V. W. SPARKS B. W. MYERS -DMS	DMS-DR-2040 AUGUST, 1973
LARC - 8TPT - 644 / LA7A CR-128,781	TRANSONIC AERODYN AMIC CHARACTERIST ICS ASSOCIATED WI TH VARIATIONS IN THE GEOMETRY OF T HE FORWARD PORTIO N OF IRREGULAR PL ANFORM WINGS	LARC LO-100 ORBIT ER (SHIPS)	TRANSONIC AERODYN AMIC CHARACTERIST ICS ASSOCIATED WI TH VARIATIONS IN THE GEOMETRY OF T HE FORWARD PORTIO N OF IRREGULAR PL ANFORM WINGS	FORCE	0.010 / 0.35 - 1.2	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	BERNARD SPENCER,J R. /NASA LARC D. E. POUCHER -DMS	DMS-DR-2041 OCT., 1973
MSFC - 14TWT - 584 / IA52 CR-134,087	RESULTS OF FLOW V ISUALIZATION STUD IES IN THE NASA/M SFC 14 X 14 INCH TRISONIC WIND TUN NEL ON A .004 SCA LE MODEL (34-0) S PACE SHUTTLE ORBI TER AND INTEGRATE D VEHICLE	ORBITER ALONE MFSC MODEL NO 453	FLOW VISUALIZATIO N STUDIES	FORCE	0.004 / 0.9 - 5.0	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	W. P. GARTON/RI J. E. VAUGHN -DMS	DMS-DR-2042 MARCH, 1974

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	HEAT TRANSFER DAT	RSI TILES,ORBITER	HEAT TRANSFER DAT	HEAT-TRANS	1.00 /	LARC /	C. B. JOHNSON /LA	DMS-DR-2043
8VDHT -	A TO CAVITIES BET		A FOR RSI TILES		8.0 -	LARC -	RC	JUNE, 1973
624 /	WEEN SIMULATED RS					MACH 8 VARIABL	W. M. HALE	
LA16	I TILES AT MACH 8					E-DENSITY HYPE	-DMS	
CR-128,770						RSONIC TUNNEL		
ARC -	RESULTS OF INVEST	SHUTTLE ORBITER 2	DETERMINE LONGITU	FORCE	.015 /	ARC /	MORRIS D. MILAM/R	DMS-DR-2044
3.5HWT -	IGATIONS ON A 0.0	A	DINAL AND LATERAL		5.27 -	ARC -	OCKWELL	OCT., 1973
157 /	15-SCALE MODEL 2A		-DIRECTIONAL STAB		7.32	3.5-FOOT HYPER	JACK A. MELLENTHI	
OA11A	CONFIGURATION OF		ILITY			SONIC WIND TUN	N/NASA AMES	
CR-128,786	THE ROCKWELL INT		ESTABLISH TRIM CA			NEL	B. J. FRICKEN	
	ERNATIONAL SPACE		PABILITY				-DMS	
	SHUTTLE ORBITER I							
	N THE NASA/AMES R							
	ESEARCH CENTER 3.							
	5 FOOT HYPERSONIC							
	WIND TUNNEL							
NRLAD -	RESULTS OF INVEST	ROCKWELL SSV ORBI	OBTAIN SIX COMPON	FORCE	0.0405 /	NR /	D.G.WALSTAD /NR	DMS-DR-2045
LSWT -	IGATIONS (OA18) O	TER	ENT FORCE DATA AN		0.16 -	NRLAD -	D. E. POUCHER	SEPT., 1973
704 /	F A 0.0405 SCALE		D ELEVON HINGE MO		0.26	LOW SPEED WIND	-DMS	
OA18	MODEL OF THE 2A A		MENT DATA			TUNNEL		
CR-128,779	ND 3 SPACE SHUTTL							
	E ORBITER CONFIGU							
	RATIONS IN THE NO							
	RTH AMERICAN AERO							
	NAUTICAL LABORATO							
	RY LOW SPEED WIND							
	TUNNEL AT M = 0.							
	26 AND 0.16							
LARC -	AERODYNAMIC STABI	LARC LO-100 ORBIT	TRANSONIC AERODYN	FORCE	0.01 /	LARC /	BERNARD SPENCER,J	DMS-DR-2046
8TPT -	LITY AND CONTROL	ER	AMIC PERFORMANCE,		0.35 -	LARC -	R. /NASA LARC	AUGUST, 1973
648 /	CHARACTERISTICS O		STABILITY AND CON		1.2	8-FOOT TRANSON	D. E. POUCHER	
LA17	F A LANGLEY CONCE		TROL AND CONTROL			IC PRESSURE TU	-DMS	
CR-128,776	PT SPACE SHUTTLE		EFFECTIVENESS			NNEL		
	ORBITER (LO-100)							
	AT MACH NUMBERS O							
	F 0.35 TO 1.2							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CFHT - 98 / LA31 CR-134,086	EFFECT OF WALL TO TOTAL TEMPERATUR E RATIO VARIATION ON HEAT TRANSFER	040A SPACE SHUTTL E CONFIGURATION	IO	HEAT-TRANS	.006 / 10 - 10	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	J. C. DUNAVANT/LA RC	DMS-DR-2047 FEB., 1974
ARC - 97SWT - 710 / IA12B CR-134,104	WIND TUNNEL TEST OF THE 0.019 (2A CONFIGURATION) JE T PLUME SPACE SHU TTLE INTEGRATED V EHICLE IN THE ARC 9- BY 7-FOOT UNI TARY WIND TUNNEL	2A CONFIGURATION	TO OBTAIN FORCE A ND MOMENT DATA, W ING PRESS. DIST., ELEVON AND RUDDER BENDING MOMENTS AND DETERMINE EFF ECT OF SRM AND SP S PLUMES, SRM AND ORB. NOZZLE GIMB AL ANGLES, AND SR M SHROUDS OFF	FORCE PRESSURE	0.019 / 1.55 - 2.0	ARC / ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	R. B. HARDIN, R. R. BURROWS /ROCKW ELL L. R. GUIST /ARC B. J. FRICKEN -DMS	DMS-DR-2048 JULY, 1974
LARC - 8VDHT - 3619/3670/ OH40 CR-128,771	AERODYNAMIC HEATI NG OF A SPACE SHU TTLE DOUBLE DELTA WING ORBITER AT MACH NUMBER 8. O	NR 2A ORBITER	DETERMINATION OF HEATING EFFECTS F OR LAMINAR THROUG H TURBULENT FLIGH T REGIMES DURING REENTRY.	FORCE	.006 / 8.0	LARC / LARC - MACH 8 VARIABL E-DENSITY HYPE RSONIC TUNNEL	H. GOROWITZ/ROCKW ELL R. WHITE/GAC A. T. KAVANAUGH -DMS	DMS-DR-2049 JULY, 1973
ARC - 66SWT - 706 / OA43 CR-128,790	WIND TUNNEL TEST OF THE 0.15-SCALE ROCKWELL INTERNA TIONAL SPACE SHUT TLE VEHICLE ORBIT ER IN THE AMES 6- BY 6-FOOT SUPERS ONIC WIND TUNNEL	ROCKWELL SSV 2A O RBITER	LONGITUDINAL AND LATERAL-DIRECTION AL CHARACTERISTIC S, RUDDER AND ELE VON HINGE MOMENTS	FORCE	0.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FO OT SUPERSONIC WIND TUNNEL	M. D. MILAM, T. J . DZIUBALA /RI - K. C. ENDICOTT /A RC - T. MCGRATH / ARO M. J. LANFRANCO S. W. BROWN -DMS	DMS-DR-2050 NOV., 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 572 / SA5F CR-128,774	AERODYNAMIC CHARA CTERISTICS OF A 1 42-INCH DIAMETER SOLID ROCKET BOOS TER (CONFIGURATIO NS 89B AND 139)	BOOSTER MSFC MODE L NO.449	TO OBTAIN FORCE A ND MOMENT DATA TO INPUT IN COMPUTE R PROGRAM TO DETE RMINE THE RATE OF DECELERATION AND THE ATTITUDE OF THE SRB'S DURING FREE-FALL	FORCE	0.00563 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	J. D. JOHNSON/MSF C W. D. RADFORD/NSI V. W. SPARKS D. E. POUCHER -DMS	DMS-DR-2051 AUGUST, 1973
LARC - UPWT - 1015 / LA10 CR-128,791	SUPERSONIC AERODY NAMIC CHARACTERIS TICS ASSOCIATED W ITH VARIATIONS IN THE GEOMETRY OF T HE FORWARD PORTIO N OF IRREGULAR PL ANFORM WINGS	LO-100 ORB(SHIPS) (BW2VFB)	EFFECTS OF GEOMET RY ON SUPERSONIC AERODYNAMIC CHARA CTERISTICS ON PLA NFORM WINGS	FORCE	0.01875 / 2.36- 4.63	LARC / LARC - UNITARY PLAN W IND TUNNEL	D. R. STONE, B. S PENCER/LARC V. W. SPARKS B. W. MYERS -DMS	DMS-DR-2052 NOV., 1973
NRLAD - LSWT - 705 / OA21B CR-128,792	EXPERIMENTAL INVE STIGATIONS OF AN 0.0405 SCALE SPAC E SHUTTLE CONFIGURATION 3 O RBITER TO DETERMI NE SUBSONIC STABI LITY CHARACTERISTICS (OA21)	ORBITER 3	INVESTIGATE THE L ONGITUDINAL AND L ATERAL-DIRECTIONA L SUBSONIC AERODY NAMIC CHARACTERIS TICS OF THE ROCKW ELL INTERNATIONAL PROPOSED PRR SPACE SHUTTLE ORB ITER	FORCE	0.0405 /	NR / NRLAD - LOW SPEED WIND TUNNEL	B. W. CAMERON AND A. J. RITSCHEL / ROCKWELL INTERNA TIONAL D. A. SARVER B. W. MYERS -DMS	DMS-DR-2053 VOLUME 01 DEC., 1973
NRLAD - LSWT - 705 / OA21B CR-128,792	EXPERIMENTAL INVE STIGATIONS OF AN 0.0405 SCALE SPAC E SHUTTLE CONFIGURATION 3 O RBITER TO DETERMI NE SUBSONIC STABI LITY CHARACTERISTICS (OA21)	ORBITER 3	INVESTIGATE THE L ONGITUDINAL AND L ATERAL-DIRECTIONA L SUBSONIC AERODY NAMIC CHARACTERIS TICS OF THE ROCKW ELL INTERNATIONAL PROPOSED PRR SPACE SHUTTLE ORB ITER	FORCE	0.0405 /	NR / NRLAD - LOW SPEED WIND TUNNEL	B. W. CAMERON AND A. J. RITSCHEL / ROCKWELL INTERNA TIONAL D. A. SARVER B. W. MYERS -DMS	DMS-DR-2053 VOLUME 02 FEB., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1023/1034/ LA8A LA8B CR-128,796	SURFACE ROUGHNESS EFFECTSON THE SU PERSONIC AERODYNA MICS OF THE ROCKW WELL INTERNATIONA L 089B-139 ORBITE R	NR ORBITER	TO DETERMINE THE EFFECTS OF SURFAC E ROUGHNESS ON TH E ORBITER AERODYN AMIC CHARACTERIST ICS OVER COMPLETE MACH RANGE	FORCE	0.188 / 1.6 - 4.63	LARC / LARC - UNITARY PLAN W IND TUNNEL	G.M. WARE , BERNA RD SPENCER JR. /L ARC J. E. VAUGHN B. W. MYERS -DMS	DMS-DR-2054 NOV., 1973
MSFC - 14TWT - 574 / 0A48 CR-128,780	STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL S 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	E.C. ALLEN/ROCKWE LL TERRY TUTTLE/ROCK WELL V. W. SPARKS B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 01 SEPT., 1973
MSFC - 14TWT - 574 / 0A48 CR-128,780	STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL S 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	E.C. ALLEN/ROCKWE LL TERRY TUTTLE/ROCK WELL V. W. SPARKS B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 02 SEPT., 1973
MSFC - 14TWT - 574 / 0A48 CR-128,780	STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL S 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFEC TIVENESS OF MODEL 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	E.C. ALLEN/ROCKWE LL TERRY TUTTLE/ROCK WELL V. W. SPARKS B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 03 NOV., 1973
LARC - LTPT - 130/135 / LA9 CR-128,782	SURFACE ROUGHNESS EFFECTS ON THE S UBSONIC AERODYNAM ICS OF THE ROCKWELL INTERNAT IONAL 089B-139 OR BITER	NAR 089B-MOD NOSE + OMS NAR 089B-MOD NOSE	SURFACE ROUGHNESS EFFECTS ON TRANS ONIC AERODYNAMICS	FORCE	0.01875 /	LARC / LARC - LOW-TURBULENCE PRESSURE TUNN EL	G. M. WARE AND BE RNARD SPENCER, JR ./LARC M. D. MILAM/ROCKW ELL INTERNATIONAL J. E. VAUGHN B. W. MYERS -DMS	DMS-DR-2056 NOV., 1973

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1035 / OA44 CR-134,411	RESULTS OF AN EXP ERIMENTAL AERODYN AMIC INVESTIGATIO N TO OBTAIN STATI C STABILITY AND C ONTROL CHARACTERI STICS OF THE SSV CONFIGURATIONS 2A (VL70-000089B) MO DEL 1 AND 3 (VL70 -000139B) MODEL 2 ORBITERS AT MACH NUMBERS OF 2.5, 3 .9, AND 4.6 IN TH E NASA LARC 4X4-F OOT UPWT (OA44)	ORBITER, MODIFIED 2A,3	STAB.AND CONTROL CHARS. OF CONFIG 2A,3 AND ALT. FOR EBODY	FORCE	0.015/ 2.5- 4.6	LARC / LARC - UNITARY PLAN W IND TUNNEL	V. ESPARZA,M. MIL AM /ROCKWELL R. SINGELLTON -DMS	DMS-DR-2057 NOV., 1974
LARC - LTPT - 138 / OA17 CR-134,079	RESULTS OF THE O. 015 SCALE SPACE S HUTTLE VEHICLE OR BITER TEST (OA17) IN THE NASA LOW T URBULENCE PRESSUR E TUNNEL	ORBITER NAR VL70- 000134B CONFIG.	OBTAIN GENERAL ST ABILITY AND CONTR OL CHARACTERISTIC S	FORCE	0.015 / 0.25 -	LARC / LARC - LOW-TURBULENCE PRESSURE TUNN EL	BERNARD SPENCER J R. AND JAMES ELLI SON /NASA LARC D. E. POUCHER -DMS	DMS-DR-2058 MARCH, 1974
ARC - 3.5HWT - 160 / OA11B CR-128,798	INVESTIGATIONS OF THE SPACE SHUTTL E ORBITER 2A CONF IGURATION 0.015-SCALE MODEL IN THE NASA AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND T UNNEL AT MACH NUM BERS 5, 7 AND 10	ORBITER 2A	DETERMINE THE FOR CE, MOMENT, AND H INGE MOMENT CHARA CTERISTICS OF CONFIGURATION 2A SPACE SHUTTLE VEHICLE ORBITER A T MACH NUMBERS 5, 7, AND 10	FORCE	0.015 / 5.0 - 7.0	ARC / ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	M. D. MILAM AND M . E. NICHOLS/ROCK WELL INTERNATIONA L J. A. MELLENTHIN AND J. CLEARY/NAS A/AMES RESEARCH C ENTER B. W. MYERS -DMS	DMS-DR-2059 JUNE, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 163 / OA58 CR-134,091	RESULTS OF AN AERODYNAMIC FORCE AND MOMENT INVESTIGATION OF AN 0.015-SCALE CONFIGURATION 3 SPACE SHUTTLE ORBITER IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (OA58)	ORBITER 3.A	GENERAL STABILITY AND CONTROL CHARACTERISTICS FOR CONFIGURATION 3 AND ALTERNATE VEHICLES	FORCE	0.015 / 5.3 - 10.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	T. J. DZIUBALA/RI J. W. CLEARY/NASA ARC B. W. MYERS -DMS	DMS-DR-2060 JUNE, 1974
NRLAD - 7TWT - 276 / OA68 CR-128,789	SUBSONIC, TRANSONIC, AND SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF THE -147B SPACE SHUTTLE ORBITER	VL70-000139B (MODEL NO. 42-0) VL70-000147B (MODEL NO. 49-0)	STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.015 / .6 - 3.0	NR / NRLAD - 7-FOOT TRISONIC WIND TUNNEL	R. C. MENNELL /RI D. A. SARVER -DMS	DMS-DR-2061 DEC., 1973
AEDC - SWTA - VA323 / IA13 CR-134,117	AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST CONDUCTED IN THE AEDC 40X 40 INCH TUNNEL A FACILITY ON THE ROCKWELL INTERNATIONAL LAUNCH CONFIGURATION 3 INTEGRATED VEHICLE	INTEGRATED VEHICLE CONFIG 3 (MODEL 32-OTS)	SEPARATION TEST OF SRB FROM ET AND ET FROM ORB. USING CAPTIVE TRAJECTORY SYSTEM		0.01 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	JACK CAMPBELL/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2062 VOLUME 01 AUGUST, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - SWTA - VA323 / IA13 CR-134,118	AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST CONDUCTED IN THE AEDC 40 X 40 INCH TUNNEL A FACILITY ON THE ROCKWELL INTERNATIONAL LAUNCH CONFIGURATION 3 INTEGRATED VEHICLE	INTEGRATED VEHICLE CONFIG. 3 (MODEL 32-OTS)	SEPARATION TEST OF SRB FROM ET AND ET FROM ORB. USING CAPTIVE TRAJECTORY SYSTEM	FORCE	0.01 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	JACK CAMPBELL/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2062 VOLUME 02 AUGUST, 1975
AEDC - SWTA - VA323 / IA13 CR-141,801	AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST CONDUCTED IN THE AEDC 40 X 40 INCH TUNNEL A FACILITY ON THE ROCKWELL INTERNATIONAL LAUNCH CONFIGURATION 3 INTEGRATED VEHICLE	INTEGRATED VEHICLE CONFIG. 3 (MODEL 32-OTS)	SEPARATION TEST OF SRB FROM ET AND ET FROM ORB. USING CAPTIVE TRAJEC	FORCE	0.01 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	JACK CAMPBELL/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2062 VOLUME 03 AUGUST, 1975
MSFC - 14TWT - 579/580 / IA37 IA48 CR-128,788	RESULTS OF TESTS IN THE MSFC 14X14 INCH TRISONIC WIND TUNNEL ON A .004 SCALE MODEL OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 3, (INTEGRATED CONFIGURATION)	INTEGRATED VEHICLE	STATIC STABILITY, INTERFERENCE EFFECTS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E. C. ALLEN, T. HAMILTON /ROCKWELL J. E. VAUGHN A. T. KAVANAUGH -DMS	DMS-DR-2063 NOV., 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN -	WIND TUNNEL TEST	INTEGRATED SSV 2A	MPS NOZZLE PRESSU	PRESSURE	0.019 /	CALSPAN /	R. B. HARDIN, R.	DMS-DR-2064
8TWT -	OF THE 0.019 SCAL	,3A MODIFIED	RE LOADS, WING, E	FORCE	0.9 -	NR /	R. BURROWS /ROCKW	VOLUME 01
T14-053 /	E SPACE SHUTTLE I		LEVON, AND RUDDER		1.2	CALSPAN -	ELL - N. A. STRUZ	DEC., 1975
IA36	NTEGRATED VEHICLE		HINGE MOMENTS,			8-FOOT TRANSON	YNSKI /CALSPAN	
CR-141,814	(MODEL 14-OTS) IN		WING PRESSURE DIS			IC WIND TUNNEL	D. A. SARVER	
	THE CALSPAN 8-FO		TRIBUTIONS, AEROD				H. C. ZIMMERLE	
	OT TRANSONIC WIND		YNAMIC STABILITY				-DMS	
	TUNNEL (IA36)		AND CONTROL					
CALSPAN -	WING TUNNEL TEST	INTEGRATED SSV 2A	MPS NOZZLE PRESSU	PRESSURE	0.019 /	CALSPAN /	R. B. HARDIN, R.	DMS-DR-2064
8TWT -	OF THE 0.019 SCAL	,3A MODIFIED	RE LOADS, WING, E	FORCE	0.9 -	NR /	R. BURROWS /ROCKW	VOLUME 02
T14-053 /	E SPACE SHUTTLE I		LEVON, AND RUDDER		1.2	CALSPAN -	ELL - N. A. STRUZ	DEC., 1975
IA36	NTEGRATED VEHICLE		HINGE MOMENTS,			8-FOOT TRANSON	YNSKI /CALSPAN	
CR-141,816	(MODEL 14-OTS) IN		WING PRESSURE DIS			IC WIND TUNNEL	D. A. SARVER	
	THE CALSPAN 8-FO		TRIBUTIONS, AEROD				H. C. ZIMMERLE	
	OT TRANSONIC WIND		YNAMIC STABILITY				-DMS	
	TUNNEL (IA36)		AND CONTROL					
ARC -	WIND TUNNEL TESTS	2A CONFIGURATION	DETERMINE EFFECTS	FORCE	0.019 /	ARC /	R. B. HARDIN, R.	DMS-DR-2065
87SWT -	OF AN 0.019-SCAL		OF COLD JET GAS	PRESSURE	2.50 -	ARC -	R. BURROWS /ROCKW	VOLUME 01
710 /	E SPACE SHUTTLE I		PLUMES ON LONG. A		3.50	8-FOOT BY 7-FO	ELL INTERNATIONAL	APRIL, 1975
IA12C	NTEGRATED VEHICLE		ND LAT-DIR. CHAR.			OT SUPERSONIC	L. R. GUIST /NASA	
CR-141,518	IN THE NASA AMES		,EXPOSED WING HIN			WIND TUNNEL (U	AMES	
	8 X 7-FOOT UNITA		GE MOM., WING PRE			NITARY)	B. J. FRICKEN	
	RY WIND TUNNEL(IA		SS. DIST., ORBITE				-DMS	
	12C)		R MPS EXTERNAL PR					
			ESS. DIST., AND M					
			ODEL BASE PRESSUR					
			ES					
ARC -	WIND TUNNEL TESTS	2A CONFIGURATION	DETERMINE EFFECTS	FORCE	0.019 /	ARC /	R.B. HARDIN, R.R.	DMS-DR-2065
87SWT -	OF AN 0.019-SCAL		OF COLD JET GAS	PRESSURE	2.50 -	ARC -	BURROWS/RI	VOLUME 02
710 /	E SPACE SHUTTLE I		PLUMES ON LONG. A		3.50	8-FOOT BY 7-FO	L.R. GUIST/NASA A	APRIL, 1975
IA120	NTEGRATED VEHICLE		ND LAT-DIR. CHAR.			OT SUPERSONIC	MES	
CR-141,519	IN THE NASA AMES		,EXPOSED WING HIN			WIND TUNNEL (U	B. J. FRICKEN	
	8 X 7-FOOT UNITA		GE MOM., WING PRE			NITARY)	-DMS	
	RY WIND TUNNEL(IA		SS. DIST.,ORBITER					
	12C)		MPS EXTERNAL PRE					
			SS. DIST.,AND MOD					
			EL BASE PRESSURES					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 87SWT - 710 / IA12C CR-141,520	WIND TUNNEL TESTS OF AN 0.019-SCAL E SPACE SHUTTLE I NTEGRATED VEHICLE IN THE NASA AMES 8 X 7-FOOT UNITA RY WIND TUNNEL(IA 12C)	2A CONFIGURATION	DETERMINE EFFECTS OF COLD JET GAS PLUMES ON LONG. A ND LAT-DIR. CHAR. .EXPOSED WING HIN GE MOM., WING PRE SS. DIST..ORBITER MPS EXTERNAL PRE SS. DIST.,AND MOD EL BASE PRESSURES	FORCE PRESSURE	0.019 / 2.50 - 3.50	ARC / ARC - 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	R.B. HARDIN, R.R. BURROWS/RI L.R.GUIST/NASA AM ES B. J. FRICKEN -DMS	DMS-DR-2065 VOLUME 03 APRIL, 1975
LARC - CFHT - 96 / LA11 CR-128,783	HYPERSONIC PERFOR MANCE, STABILITY AND CONTROL CHARA CTERISTICS OF A . 0075 SCALE MODEL ROCKWELL INTERNAT IONAL 089-139 ORB ITER CONFIGURATIO N	SPACE SHUTTLE ORB ITER 089B-139	TO DETERMINE HYPE RSONIC AERODYNAMI C CHARACTERISTICS OF SHUTTLE ORBIT ER	FORCE	0.0075 / 10.3 -	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	R.W.POWELL/NASA L ARC T.A.BLACKSTOCK/NA SA LARC J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2066 NOV., 1973
LARC - 26TBT - 544 / OS2 CR-128,777	FLUTTER TESTS (OS 2) OF THE SHUTTLE ORBITER FIN/RUDD ER MODEL 24-0	0.025 SCALE MODEL OF SPACE SHUTTLE ORBITER (24-0) F IN/RUDDER	ACQUISITION OF EX PERIMENTAL FLUTTE R BOUNDARY DATA I N THE TRANSONIC FLIGHT REGION TO SUPPORT ANALYTICA L FLUTTER PREDICT IONS	STRUCT-DYN	0.025 / 0.6 - 1.3	LARC / LARC - 26-INCH TRANSO NIC BLOWDOWN T UNNEL	J. W. FOUST/ROCKW ELL A. T. KAVANAUGH -DMS	DMS-DR-2067 AUGUST, 1973
NRLAD - LSWT - 708 / OA71A CR-128,797	EFFECTS OF THE AI R BREATHING PROPU LSION SYSTEM ON S PACE SHUTTLE ORBI TER SUBSONIC STAB ILITY AND CONTROL CHARACTERISTICS (OA71A)	-89B(2A) ORBITER	EFFECTS OF FERRY ENGINE NACELLE GR OUPING AND LOCATI ON	FORCE	0.0405 / 0.20 -	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKW ELL D. A. SARVER W. M. HALE -DMS	DMS-DR-2068 DEC., 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1031 / MA7 CR-134,074	EFFECTS OF REACTION CONTROL SYSTEM JET-FLOW FIELD INTERACTIONS ON A 0.015 SCALE MODEL SPACE SHUTTLE ORBITER AERODYNAMIC CHARACTERISTICS	PRR ORBITER	INTERFERENCE STUDY AT SUPERSONIC SPEEDS TO DETERMINE CONTROL AMPLIFICATION FACTORS RESULTING FROM JET INTER-ACTION BETWEEN THE RCS PLUMES AND THE EXTERNAL FLOW OVER THE VEHICLE	FORCE	0.015 / 2.5 - 4.0	LARC / LARC - UNITARY PLAN WIND TUNNEL	J.R.RAUSCH/ROCKWELL W.J.MONTA/LARC J. E. VAUGHN A. T. KAVANAUGH -DMS	DMS-DR-2069 JAN., 1974
LARC - LTPT - 141 / LA23 CR-128,787	EFFECT OF GASEOUS AND SOLID SIMULATED JET PLUMES ON AN 040A SPACE SHUTTLE LAUNCH CONFIGURATION AT MACH NUMBERS FROM 1.6 TO 2.2	JSC 040A ORBITER WITH EHOT AND 2 SRM	DETERMINE EFFECT OF PLUME-INDUCED FLOW SEPARATION AND ASPIRATION EFFECTS DUE TO OPERATION OF BOTH THE ORBITER AND THE SOLID ROCKET MOTORS	FORCE	.019 / 1.6 - 2.2	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	J. B. DODS,JR., J. J. BROWNSON, D. L. KASSNER / ARC K. L. BLACKWELL / MSFC V. W. SPARKS A. T. KAVANAUGH -DMS	DMS-DR-2070 OCT., 1973
ARC - 3.5HWT - 168 / OA23 CR-128,799	RESULTS OF TESTS OF 0.010- AND 0.015-SCALE MODELS OF SPACE SHUTTLE ORBITER CONFIGURATIONS 3 AND 3A IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (OA23)	MODEL 32-0 MODEL 49-0	OBTAIN STABILITY AND CONTROL CHARACTERISTICS FOR THE 3A BASELINE VEHICLE CONFIGURATION	FORCE	0.015 , 0.010 / 5.3 - 10.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	T. J. DZIUBALA, M. D. MILAM/ROCKWELL INTERNATIONAL J.W. CLEARY, J. A. MELLENTHIN/NASA AMES B. W. MYERS -DMS	DMS-DR-2071 SEPT., 1974
MSFC - 14TWT - 573 / IA31FC CR-134,072	MISALIGNMENT STUDIES ON SPACE SHUTTLE INTEGRATED VEHICLE	PRR BASELINE LAUNCH CONFIGURATION MCR 0074 BASELINE MODEL ELEMENTS	EFFECTS OF MODEL ELEMENT MISALIGNMENT ON TEST RESULTS	FORCE	0.004 / 0.9 - 1.46	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. RAMSEY /MSFC T. MCMEANS, T. DAVIS / NSI V. W. SPARKS A. T. KAVANAUGH -DMS	DMS-DR-2072 JAN., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	EFFECTS OF REACTI	MODEL 42-0 OF THE	OBTAIN THE DETAIL	FORCE	0.015 /	LARC /	J. J. DAILEDA, JO	DMS-DR-2073
UPWT -	ON CONTROL SYSTEM	VL70-000139B SSV	ED EFFECTS THAT R			LARC -	HN MARROQUIN	MARCH, 1974
1043 /	JET SIMULATION O	ORBITER CONFIGUR	CS JET FLOW INTER			UNITARY PLAN W	J. E. VAUGHN	
0A70	N THE STABILITY	ATION 3	ACTIONS HAVE ON S			IND TUNNEL	A. T. KAVANAUGH	
CR-134,070	AND CONTROL CHARA		UPERSONIC STABILI				-DMS	
	CTERISTICS OF A O		TY AND CONTROL CH					
	.015 SCALE SPACE		ARACTERISTICS OF					
	SHUTTLE MODEL		THE SPACE SHUTTLE					
	TESTED IN THE LAN		VEHICLE					
	GLEY RESEARCH CEN							
	TER UNITARY PLAN							
	WIND TUNNEL							
NRLAD -	EFFECTS OF THE AI	-89B SPACE SHUTTL	INVESTIGATE THE O	PRESSURE	0 0405 /	NR /	BRUCE W. CAMERON,	DMS-DR-2074
LSWT -	R BREATHING ENGIN	E ORBITER FERRY C	RBITER WING PRESS	FORCE	0.165-	NRLAD -	JR. /RI	OCT., 1974
709 /	E PLUMES ON SSV O	ONFIGURATION	URE DISTRIBUTION			LOW SPEED WIND	R. B. LOWE	
0A57A	RBITER SUBSONIC W		RESULTING FROM FI			TUNNEL	-DMS	
CR-134,414	ING PRESSURE DIST		VE UNDER-WING ENG					
	RIBUTIONS		INE NACELLE PLUME					
			S					
LARC -	INVESTIGATION OF	MODEL SS-H-00326-	AERODYNAMIC HEATI	HEAT-TRANS	0.00593 /	LARC /	H. GOROWITZ/RI	DMS-DR-2075
8VDHT -	CONFIGURATION EFF	1	NG INVESTIGATIONS		7.9 -	LARC -	A. T. KAVANAUGH	OCT., 1973
3778/ /	ECTS ON ENTRY HEA				7.9	MACH 8 VARIABL	-DMS	
3855 /	TING DISTRIBUTION					E-DENSITY HYPE		
0H41	S AT MACH = 8.0 (					RSONIC TUNNEL		
CR-128,784	0H41)							
LARC -	INVESTIGATION OF	SS-H-00326-4	AERODYNAMIC HEATI	HEAT-TRANS	0.00593 ,	LARC /	H. GOROWITZ/RI	DMS-DR-2076
8VDHT -	CONFIGURATION EFF	SS-H-00326B-5,-6,	NG INVESTIGATIONS		0.006 /	LARC -	R. WHITE, A. D'ER	OCT., 1973
4060/ /	ECTS ON ENTRY HEA	-7			7.9 -	MACH 8 VARIABL	RICO/GRUMMAN	
4079 /	TING DISTRIBUTION	NR 110D			7.9	E-DENSITY HYPE	A. T. KAVANAUGH	
0H41A	S AT MACH NO = 8.					RSONIC TUNNEL	-DMS	
CR-128,785	0 (0H41A)							

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ARC - 66SWT - 630 / IA29 OA63 CR-134,095	RESULTS OF TESTS OA63 AND IA29 ON AN 0.015-SCALE MO DEL OF THE SPACE SHUTTLE CONFIGURA TION 140 A/B IN T HE NASA/ARC 6- BY 6-FOOT TRANSONIC WIND TUNNEL	140A/B ORB., VEH. 4 ET, 2 SRB'S SHUTTLE ORBITER V ENT PRESSURE MODE L 36-OTS	TO DETERMINE LOCA L PRESSURE DISTRI BUTIONS ON THE OR BITER FUSELAGE FO R ASCENT FLIGHT T O SUPPORT VEHICLE VENTING STUDIES	PRESSURE	0.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FO OT SUPERSONIC WIND TUNNEL	R.H. SPANGLER, D. E. THORNTON, ROCK WELL INTERNATIONA L L.R. GUIST, CARL E. SUTTON, ARC B. J. FRICKEN -DMS	DMS-DR-2077 VOLUME 01 MAY, 1974
ARC - 66SWT - 630 / IA29 CR-134,099	RESULTS OF TESTS OA63 AND IA29 ON AN 0.015-SCALE MO DEL OF THE SPACE SHUTTLE CONFIGURA TION 140 A/B IN T HE NASA/ARC 6- BY 6-FOOT TRANSONIC WIND TUNNEL	140A/B ORB., VEH. 4 ET, 2 SRB'S	TO DETERMINE LOCA L PRESSURE DISTRI BUTIONS ON THE OR BITER FUSELAGE FO R ASCENT FLIGHT T O SUPPORT VEHICLE VENTING STUDIES	PRESSURE	0.015 / 0.6 - 2.0	RC / ARC - 6-FOOT BY 6-FO OT SUPERSONIC WIND TUNNEL	R. H. SPANGLER , D. E. THORNTON ,R OCKWELL INTERNATI ONAL L. R. GUIST , CAR L E. SUTTON, AMES B. J. FRICKEN -DMS	DMS-DR-2077 VOLUME 02 MAY, 1974
ARC - 66SWT - 630 / OA63 CR-134,100	RESULTS OF TESTS OA63 AND IA29 ON AN 0.015-SCALE MO DEL OF THE SPACE SHUTTLE CONFIGURA TION 140 A/B IN T HE NASA/ARC 6- BY 6-FOOT TRANSONIC WIND TUNNEL	140A/B ORB., VEH. 4 ET, 2 SRB'S	TO DETERMINE LOCA L PRESSURE DISTRI BUTIONS ON THE OR BITER FUSELAGE FO R ASCENT FLIGHT T O SUPPORT VEHICLE STUDIES	PRESSURE	0.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FO OT SUPERSONIC WIND TUNNEL	R. H. SPANGLER, D . E. THORNTON/RI L. R. GUIST , CAR L E. SUTTON, AMES B. J. FRICKEN -DMS	DMS-DR-2077 VOLUME 03 MAY, 1974
ARC - 3.5HWT - 169 / IA10 CR-128,795	WIND TUNNEL TEST OF THE 0.010-SCAL E SPACE SHUTTLE I NTEGRATED VEHICLE IN THE NASA-AMES 3.5-FOOT HYPERSO NIC WIND TUNNEL (IA10)	MODEL 32-OT WITH ORBITER, ET, SIMU LATED ENGINE PLUM ES	EVALUATE BASIC HY PERSONIC STABILIT Y CHARACTERISTICS OF FIRST AND SECOND STAGE AND TO DEFINE ORBITER PLUME EFFECTS ON AERO CHARACTERIS TICS USING SOLID PLUMES	FORCE	0.010 /	ARC / ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	F. F. FIZGERALD, M. T. PETROZZI/ R OCKWELL INTERNATI ONAL J. W. CLEARY, J. A. MELLENTHIN/ NA SA/AMES RESEARCH CENTER B. W. MYERS -DMS	DMS-DR-2078 JAN., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	EFFECTS OF SURFAC	089B-139B(MODIFIE	EFFECTS OF TPS TI	FORCE	0.01 /	LARC /	G.C.ASHBY,JR./NAS	DMS-DR-2079
20HT6 -	E ROUGHNESS ON TH	D NOSE)	LE IRREGULARITIES		6.0 -	LARC -	A.LARC	APRIL. 1974
441 /	E AERODYNAMIC CHA		EXPLORE POSSIBLE		6.0	20-INCH HYPERS	J. E. VAUGHN	
LA15	RACTERISTICS OF T		BOUNDARY LAYER SE			ONIC TUNNEL (M	-DMS	
CR-134,083	HE MODIFIED 089 B		PARATION HYSTEREI			ACH 6)		
	SHUTTLE ORBITER		S EFFECT					
	AT MACH 6 (LA15)							
NRLAD -	EFFECTS OF AIR BR	-89B SPACE SHUTTL	INVESTIGATE ORBIT	PRESSURE	0.0405 /	NR /	T. SOARD /RI	DMS-DR-2080
LSWT -	EATHING ENGINE PL	E ORBITER FERRY C	ER WING PRESSURE	FORCE	0.20 -	NRLAD -	R. B. LOWE	VOLUME 01
713 /	UMES ON SSV ORBIT	ONFIGURATION	DISTRIBUTIONS RES			LOW SPEED WIND	-DMS	OCT., 1974
0A57B	ER SUBSONIC WING		ULTING FROM NACEL			TUNNEL		
CR-134,416	PRESSURE DISTRIBU		LE PLUMES ABOVE A					
	TION		ND BELOW THE WING					
NRLAD -	EFFECTS OF AIR BR	-89B SPACE SHUTTL	INVESTIGATE ORBIT	PRESSURE	0.0405 /	NR /	T. SOARD /RT	DMS-DR-2080
LSWT -	EATHING ENGINE PL	E ORBITER FERRY C	ER WING PRESSURE	FORCE	0.2 -	NRLAD -	R. B. LOWE	VOLUME 02
713 /	UMES ON SSV ORBIT	ONFIGURATION	DISTRIBUTIONS RES			LOW SPEED WIND	-DMS	OCT., 1974
0A57B	ER SUBSONIC WING		ULTING FROM NACEL			TUNNEL		
CR-134,417	PRESSURE DISTRIBU		LE PLUMES ABOVE A					
	TION		ND BELOW THE WING					
NRLAD -	LANDING PRESSURE	-140 A/B SPACE SH	PRESSURE LOADS DA	PRESSURE	0.0405 /	NR /	T. L. SOARD, B. W	DMS-DR-2081
LSWT -	LOADS OF THE -140	UTTLE ORBITER	TA IN GROUND EFFE		0.2 -	NRLAD -	. CAMERON /ROCKWE	VOLUME 01
711 /	A/B SPACE SHUTTL		CT		0.2	LOW SPEED WIND	LL	JAN., 1976
0A69	E ORBITER DETER-					TUNNEL	H. C. ZIMMERLE	
CR-141,580	MINED IN THE NRLA						-DMS	
	D LOW SPEED WIND							
	TUNNEL (0A69)							
NRLAD -	LANDING PRESSURE	-140 A/B SPACE SH	PRESSURE LOADS DA	PRESSURE	0.0405 /	NR /	T. L. SOARD, B. W	DMS-DR-2081
LSWT -	LOADS OF THE -140	UTTLE ORBITER	TA IN GROUND EFFE	FORCE	0.2 -	NRLAD -	. CAMERON /ROCKWE	VOLUME 02
711 /	A/B SPACE SHUTTL		CT		0.2	LOW SPEED WIND	LL	JAN., 1976
0A69	E ORBITER DETER-					TUNNEL	H. C. ZIMMERLE	
CR-141,581	MINED IN THE NRLA						-DMS	
	D LOW SPEED WIND							
	TUNNEL (0A69)							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 167 / OA73 CR-128,800	EFFECTS OF REACTION CONTROL SYSTEM JET SIMULATION ON THE STABILITY AND CONTROL CHARACTERISTICS OF A .015-SCALE SPACE SHUTTLE ORBITER MODEL IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL	CONFIGURATION 3A ORBITER	ASCERTAIN THE EFFECTS OF RCS JET FLOW FIELD INTERACTIONS WITH THE LOCAL FLOW FIELD ON THE HYPERSONIC AERODYNAMIC AND STABILITY AND CONTROL CHARACTERISTICS OF THE ORBITER DURING RE-ENTRY.	FORCE	0.015 / 10.29-	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	T.J. DZIUBALA /ROCKWELL J. MARROQUIN /ROCKWELL M. M. MANN -DMS	DMS-DR-2082 DEC., 1973
LARC - UPWT - 1057 / OA20A CR-134,081	RESULTS OF INVESTIGATIONS (OA20) ON A 0.015-SCALE 140 A/B CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL IN THE NASA/LANGLEY RESEARCH CENTER UNITARY PLAN WIND TUNNEL	SSV 140A/B ORBITER	TO DETERMINE SUPERSONIC TRIM AND STABILITY CHARACTERISTICS FOR THE 140A/B ORBITER.	FORCE	0.015 / 2.5 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	J.H.CAMPBELL,II, M.E.NICHOLS /ROCKWELL W.P.PHILLIPS /LARC M. M. MANN -DMS	DMS-DR-2083 FEB., 1974
ARC - 11TWT - 716 / IA14A CR-134,443	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE; TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 01 FEB., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 716 / IA14A CR-134,444	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE; TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 02 MARCH, 1975
ARC - 11TWT - 716 / IA14A CR-143,445	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE; TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 03 APRIL, 1975
ARC - 11TWT - 716 / IA14A CR-143,446	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE; TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 04 APRIL, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 11TWT 716 / IA14A CR-143,447	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE: TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 05 APRIL, 1975
ARC 11TWT 716 / IA14A CR-143,448	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE: TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 /	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 06 APRIL, 1975
ARC 11TWT 716 / IA14A CR-143,449	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE: TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 07 APRIL, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 716 / IA14A CR-143,450	AIRLOADS INVESTIG ATIONS OF AN 0.03 0-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B L AUNCH CONFIGURATI ON (MODEL 47-OTS) IN THE ARC 11-FO OT UNITARY PLAN W IND TUNNEL FOR MA CH RANGE 0.6 TO 1 .4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE D ISTRIBUTIONS ON I NTEGRATED LAUNCH VEHICLE; TO OBTAI N FORCE DATA	PRESSURE FORCE	0.030 /	RAC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 08 APRIL, 1975
ARC - 11TWT - 716 / IA14A CR-141,501	IARLOADS INVESTIG ATIONS OF AN 0.03 0-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B L AUNCH CONFIGURATI ON (MODEL 47-OTS) IN THE ARC 11-FO OT UNITARY PLAN W IND TUNNEL FOR MA CH RANGE 0.6 TO 1 .4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE D ISTRIBUTIONS ON I NTEGRATED LAUNCH VEHICLE; TO OBTAI N FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 09 MAY, 1975
ARC - 11TWT - 716 / IA14A CR-141,502	AIRLOADS INVESTIG ATIONS OF AN 0.03 0-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B L AUNCH CONFIGURATI ON (MODEL 47-OTS) IN THE ARC 11-FO OT UNITARY PLAN W IND TUNNEL FOR MA CH RANGE 0.6 TO 1 .4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE D ISTRIBUTIONS ON I NTEGRATED LAUNCH VEHICLE; TO OBTAI N FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNF L (UNITARY)	R. L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 10 MAY, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 716 / IA14A CR-141,503	AIRLOADS INVESTIGATIONS OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE; TO OBTAIN FORCE DATA	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R.L. GILLINS, E. CHEE/RI D. A. SARVER J.T.DAVIET -DMS	DMS-DR-2084 VOLUME 11 MAY, 1975
ARC - 3.5HWT - 171 / OH10 IH2 CR-167,344	REPORT OF PRESSURE DISTRIBUTION TESTS OF THE 0.010-SCALE SPACE SHUTTLE VEHICLE MODEL (26-OTS) IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (TESTS OH10 AND IH2)	SPACE SHUTTLE INTEGRATED VEHICLE PRESSURE MODEL 26-OTS	TO OBTAIN HYPERSONIC SURFACE PRESSURES ON THE MODEL TO CORRELATE AERODYNAMIC HEATING DATA AND VERIFY LOADS PREDICTIONS	PRESSURE	0.010 . 0.10 / 5.3 - 7.4	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE, R. B. KINGSLAND /ROCKWELL D. A. SARVER H. C. ZIMMERLE -DMS	DMS-DR-2095 JAN., 1982
NRLAD - LSWT - 712 / OA71C CR-134,078	EFFECTS OF THE SIX ENGINE AIR BREATHING PROPULSION SYSTEM ON SPACE SHUTTLE ORBITER SUBSONIC STABILITY AND CONTROL CHARACTERISTICS	-89B ORBITER SPACE SHUTTLE ORBITER/ET	OPTIMIZE AIR BREATHING PROPULSION SYSTEM NACELLE COWL-INLET DESIGN AND DETERMINE THE EFFECT OF THIS DESIGN ON THE ORBITER STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.0405 / 0.21 -	NRLAD / NRLAD - LOW SPEED WIND TUNNEL	R.C. MENNELL AND T. SOARD / ROCKWELL D. E. POUCHER -DMS	DMS-DR-2086 FEB., 1974

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC -	EFFECT OF ENGINE	SRB WITH VARIED S	DETERMINE EFFECTS	FORCE	0.00563 /	MSFC /	J.D. JOHNSON / MS	DMS-DR-2087
14TWT -	SHROUD CONFIGURAT	HROUD LENGTHS AND	OF ENGINE SHROUD		0.4 -	NSI /	FC	SEPT., 1974
578 /	ION ON THE STATIC	FLARE ANGLES	SIZE AND SHAPE O		4.96	MSFC -	W.F. BRADDOCK / N	
SA10F	AERODYNAMIC	SRB WITH VARIED S	N AERODYNAMIC			14-INCH TRISON	SI	
CR-134,116	CHARACTERISTICS O	HROUD MOUNTED STR	CHARACTERISTICS O			IC WIND TUNNEL	V. W. SPARKS	
	F A 0.00563 SCALE	AKES AND TVC BOTT	F THE SRB				V. W. SPARKS	
	142-INCH DIAMETE	LES					-DMS	
	R SOLID ROCKET							
	BOOSTER							
LARC -	AERODYNAMIC CHARA	142-INCH SOLID RO	AERODYNAMICS OF S	FORCE	0.02112 /	LARC /	J.D.JOHNSON/MSFC	DMS-DR-2088
8TPT -	CTERISTICS OF A 1	CKET BOOSTER	RB DURING FREE-FA		0.4 -	LARC -	W.D.RADFORD/NSI	JULY, 1974
655 /	42-INCH DIAMETER		LL		1.2	8-FOOT TRANSON	J. E. VAUGHN	
8TPT -	SOLID ROCKET					IC PRESSURE TU	A. T. KAVANAUGH	
662 /	BOOSTER (CONFIGUR					NNEL	-DMS	
SA2FA	ATION 139)					8-FOOT TRANSON		
SA2FB						IC PRESSURE TU		
CR-134,105						NNEL		
LARC -	RESULTS OF INVEST	140A/B	VERIFY LONGITUDIN	FORCE	0.015 /	LARC /	J. H. CAMPBELL II	DMS-DR-2089
8TPT -	IGATIONS ON AN O.		AL AND LATERAL-DI		0.35 -	LARC -	AND M. E. NICHOL	APRIL, 1974
661 /	015-SCALE CONFIGU		RECTIONAL CHARACT		1.2	8-FOOT TRANSON	S/ROCKWELL INTERN	
0A25	RATION 140A/B SPA		ERISTICS OF 140A/			IC PRESSURE TU	ATIONAL	
CR-134,082	CE SHUTTLE ORBITE		B ORBITER, DETERM			NNEL	W. P. PHILLIPS/LA	
	R MODEL (49-0) IN		INE SURFACE DEFLE				NGLEY RESEARCH CE	
	THE NASA/LANGLEY		CTION EFFECTS ON				NTER	
	RESEARCH CENTER		VEHICLE PERFORMAN				B. W. MYERS	
	8-FOOT TRANSONIC		CE, AND TO DETERM				-DMS	
	PRESSURE TUNNEL (		INE COMPONENT BUI					
	0A25)		LDUP EFFECTS					
LARC -	SUPERSONIC PERFOR	089B-139B ORBITER	TO STUDY THE SUPE	FORCE	0.01875/	LARC /	G. M. WARE/LARC	DMS-DR-2090
UPWT -	MANCE, STABILITY	CONFIGURATION	RSONIC AERODYNAMI		1.9 -	LARC -	R. W. POWELL/LARC	MARCH, 1974
1040 /	AND CONTROL CHARA		C CHARACTERISTICS		2.86	UNITARY PLAN W	J. E. VAUGHN	
LA8C	CTERISTICS OF A O		OF A ROCKWELL IN			IND TUNNEL	B. W. MYERS	
CR-134,080	.01875 SCALE MODE						-DMS	
	L ROCKWELL INTERN							
	ATIONAL 089B-139B							
	ORBITER CONFIGUR							
	ATION (LA8C)							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 657/660 / LA7B CR-141,512	SUBSONIC AND TRANSONIC AERODYNAMIC CHARACTERISTICS ASSOCIATED WITH VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS ON A .01875 SCALE LO-100 LANGLEY CONCEPT SPACE SHUTTLE ORBITER IN THE LANGLEY 8-FOOT TPT (LA7B)	LO-100 ORBITER	EFFECTS OF WING-FILLET LEADING EDGE CONFIGURATION	FORCE	0.35 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	B. SPENCER /NASA D. E. POUCHER -DMS	DMS-DR-2091 MARCH, 1975
LARC - 22HT - 415 / OA72 TM-X 71968	HYPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.004 SCALE MODEL (34-0) ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER VEHICLE 3 CONFIGURATION (OA-72)	ORBITER 139B (34-0)	TO DETERMINE THE HYPERSONIC AERODYNAMIC PERFORMANCE, LONGITUDINAL TRIM, AND STATIC STABILITY AND CONTROL AND DETERMINE THE EFFECT OF REYNOLDS NUMBER ON LONGITUDINAL STABILITY.	FORCE	0.004 / 17.6 - 21.6	LARC / LARC - 22-INCH HELIUM TUNNEL	DAVID R. STONE/LARC ROBERT MULFINGER/RI M. M. MANN -DMS	DMS-DR-2092 NOV., 1974
MSFC - 14TWT - 585 / IA37B CR-134,090	EFFECT OF EXTERNAL TANK NOSE SHAPE ON THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 3, (INTEGRATED CONFIGURATION (IA-37B)	EXTERNAL TANK, T9 EXTERNAL TANK, T11 EXTERNAL TANK, T15 SRB, S12	TO INVESTIGATE THE EFFECT ON THE INTEGRATED VEHICLE AERODYNAMIC CHARACTERISTICS OF SEVERAL TANK NOSE SHAPES	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E. C. ALLEN/RI V. W. SPARKS J. L. GLYNN -DMS	DMS-DR-2093 MARCH, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 26TBT - 545 / OS1 CR-134,073	FLUTTER TESTS (OS 1) OF THE 0.02-SC ALE ORBITER WING ELEVON SEMI-SPAN MODEL 23-0	BASIC WING AND 11 HZ INBD AND 13.5 HZ OUTBD ELEVON ROTATIONAL FREQ BASIC WING AND 11 HZ INBD AND 11 H Z OUTBOARD ELEVON ROTATIONAL FREQ	ACQUIRE EXPERIMEN TAL FLUTTER BOUND ARY DATA IN THE T RANSONIC FLIGHT REGIME TO SUPPORT ANALYTICAL FLUTT ER PREDICTIONS	STRUCT-DYN	0.55 - 1.3	LARC / LARC - 26-INCH TRANSO NIC BLOWDOWN T UNNEL	MICHAEL A. KOTCH A. T. KAVANAUGH -DMS	DMS-DR-2094 MARCH, 1974
MSFC - 14TWT - 581 / 0A49 CR-134,404	AN INVESTIGATION OF THE STABILITY AND CONTROL CHARA CTERISTICS OF THE VEHICLE 4 CONFIGURATION	ORBITER	VERIFY THE STABIL ITY AND CONTROL C HARACTERISTICS OF THE VEHICLE 4 CONFIGURATION	FORCE	0.6 - 4.96	RI / MSFC - 14-INCH TRISON IC WIND TUNNEL	R. MULFINGER / R OCKWELL INTERNATI ONAL D. A. SARVER M. M. MANN -DMS	DMS-DR-2095 SEPT., 1974
LARC - 8VDHT - 644 / OH13 CR-134,101	HEAT TRANSFER TES TS OF AN 0.006-SC ALE THIN SKIN SPA CE SHUTTLE THERMO COUPLE MODEL (41- 0) IN THE LANGLEY RESEARCH CENTER VARIABLE DENSITY TUNNEL AT M=8	B10C507F4M3V5W87	OBTAIN ORBITER EN TRY HEATING DISTR IBUTIONS AND C ORRELATE PHASE CH ANGE PAINT DATA W ITH THERMOCOUPLE DATA	HEAT-TRANS	0.006 / 8.0 - 8.0	LARC / LARC - MACH 8 VARIABL E-DENSITY HYPE RSONIC TUNNEL	D. G. WALSTAD/ROC KWELL INTERNATION AL P. LAWING/NASA B. W. MYERS -DMS	DMS-DR-2096 AUGUST, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 715 / OA62A CR-134,102	CONTINUED INVESTIGATIONS IN THE NAL LOW SPEED WIND TUNNEL INTO THE EFFECTS OF THE AIR BREATHING PROPULSION SYSTEM ON ORBITER SUBSONIC STABILITY AND CONTROL CHARACTERISTICS (OA62A)	140A/B SSV ORBITER	CONTINUE STUDIES INITIATED ON TESTS OA16, OA71A, AND OA71C FOR OPTIMIZING THE AIR BREATHING PROPULSION SYSTEM (ABPS) AND INVESTIGATE THE AERODYNAMIC EFFECTS OF VARIOUS NACELLE NUMBER/LOCATION CONFIG. ON THE ORBITER STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.0405 / 0.2 - 0.2	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL/ROCKWELL INTERNATIONAL M. M. MANN -DMS	DMS-DR-2097 JUNE, 1974
ARC - 3.5HWT - 172 / IH15 CR-134,096	HEAT TRANSFER TESTS OF A 0.006-SCALE THIN-SKIN SPACE SHUTTLE MODEL (41-OTS) IN THE AMES 3.5-FOOT HWT AT M=5.3	B10C5D7F4M3V5W87 B10C5D7F4M3V5W87T8 B10C5D7F4M3V5W87T8S6 T8	PARAMETRICALLY INVESTIGATE THE ASCENT HEATING OF THE INTEGRATED VEHICLE	HEAT-TRANS	0.006 / 5.3 - 5.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	D. G. WALSTAD AND W. J. GRIFALL/ ROCKWELL INTERNATIONAL T. L. LOCKMAN/ARC T. L. MULKEY B. W. MYERS -DMS	DMS-DR-2098 OCT., 1974
AEDC - HWTB - VA352 / OH4B CR-134,419	DATA REPORT FOR TESTS ON THE HEAT TRANSFER EFFECTS OF THE 0.0175-SCALE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE MODEL 22-OT IN THE AEDC 50-INCH B WIND TUNNEL	22-OT	HEAT TRANSFER EFFECTS	HEAT-TRANS	0.0175 / 8.0 - 8.0	AEDC / AEDC - HYPERSONIC WIND TUNNEL (B)	T. F. FOSTER, W. J. GRIFALL /ROCKWELL D. A. SARVER B. J. FRICKEN -DMS	DMS-DR-2099 VOLUME 01 FEB., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - VA352 / OH4B CR-134,438	DATA REPORT FOR TESTS ON THE HEAT TRANSFER EFFECTS OF THE 0.0175-SCALE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE MODEL 22-OT IN THE AEDC 50-INCH WIND TUNNEL	22-OT	HEAT TRANSFER EFFECTS	HEAT-TRANS	0.0175 / 8.0 - 8.0	AEDC / AEDC - HYPERSONIC WIND TUNNEL (B)	T. F. FOSTER, W. J. GRIFALL/ROCKWELL D. A. SARVER B. J. FRICKEN -DMS	DMS-DR-2099 VOLUME 02 FEB., 1975
AEDC - HWTB - VA352 / OH4B CR-134,439	DATA REPORT FOR TESTS ON THE HEAT TRANSFER EFFECTS OF THE 0.0175-SCALE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE MODEL 22-OT IN THE AEDC 50-INCH B WIND TUNNEL	22-OT	HEAT TRANSFER EFFECTS	HEAT-TRANS	0.0175 / 8.0 - 8.0	AEDC / AEDC - HYPERSONIC WIND TUNNEL (B)	T. F. FOSTER, W. J. GRIFALL/ROCKWELL D. A. SARVER B. J. FRICKEN -DMS	DMS-DR-2099 VOLUME 03 FEB., 1975
AEDC - HWTB - VA289 / OH3A OH3B CR-134,075	PHASE CHANGE PAINT TESTS ON ROCKWELL ORBITER/TANK AND ORBITER ALONE CONFIGURATIONS	ORB.(VL70-000139)/ET (VL78-00041) AND ORB. ALONE RI ORBITER (VL70-000139)	DETERMINE INTERFERENCE EFFECTS AND HEATING RATES ON AN ORBITER/TANK CONFIGURATION AND ON AN ORBITER ALONE, WITH AND WITHOUT TPS TILE SIMULATION.	HEAT-TRANS	0.0175 / 8.0 - 8.0	AEDC - HYPERSONIC WIND TUNNEL (B)	M.QUAN,C.CRAIG/RI M. M. MOSER JR. -DMS	DMS-DR-2100 JUNE, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	HEAT TRANSFER PHA	B17C7M4F5W103E22V	DETERMINE THE EFF	HEAT-TRANS	0.00593/	LARC /	R. JONES, T. CREE	DMS-DR-2101
8VDHT -	SE CHANGE PAINT T	7R5	ECTS OF VARIOUS W		8.0 -	LARC -	L. P. LAWING/NASA	JAN., 1974
4080/4105/	EST (OH-42) OF A	B17C7M4F5W104E22V	ING/UNDERBODY CON		8.0	MACH 8 VARIABL	M. QUAN, W. DYE,	
4130/4193/	ROCKWELL	7R5	FIGURATIONS ON			E-DENSITY HYPE	J. CUMMINGS, H. G	
OH42A	INTERNATIONAL SSV	B17C7M4F5W106E22V	THE AERODYNAMIC			RSONIC TUNNEL	OROWITZ, C. CRAIG	
OH42B	ORBITER IN THE N	7R5H16	HEATING RATES AND				, G. RICH/RI	
OH42C	ASA/LRC MACH 8 VA	B17C7M4F5W106E22V	BOUNDARY LAYER T				D. A. SARVER	
CR-134,076	RIABLE DENSITY	7R5H17	RANSITION DURING				G. G. MCDONALD	
	WIND TUNNEL		SIMULATED ENTRY C				-DMS	
			ONDITIONS					
ARC -	RESULTS OF INVEST	OT+L+P1+A1+F	EFFECTS OF VARIOU	FORCE	0.010 /	ARC /	M. T. PETROZZI, M	DMS-DR-2102
3.5HWT -	IGATIONS ON A 0.0		S ELEVON, RUDDER,		7.3 -	ARC -	. D. MILAM /RI J	APRIL, 1974
175 /	10-SCALE MODEL OF		ATTACHING STRUCT		7.3	3.5-FOOT HYPER	. A. MELLENTHIN /	
IA15	THE		URES, FAIRINGS,			SONIC WIND TUN	ARC	
CR-134,089	CONFIGURATION 3 S		AND MAIN PROPULSI			NEL	D. A. SARVER	
	PACE SHUTTLE ORBI		ON ROCKET PLUMES				G. G. MCDONALD	
	TER AND EXTERNAL		ON LONGITUDINAL A				-DMS	
	TANK IN THE NASA/		ND LATERAL-					
	AMES RESEARCH CEN		DIRECTIONAL STABI					
	TER 3.5-FOOT HYPE		LITY CHARACTERIST					
	RSONIC WIND TUNNE		ICS					
	L (IA15)							
MSFC -	WIND TUNNEL TEST	(034)(T9)(S12)(PT	DETERMINE EFFECT	FORCE	0.004,	ROCKWELL/	E.C. ALLEN/ROCKWE	DMS-DR-2103
14TWT -,	RESULTS OF FAIRIN	4)(FR4)	OF FULL LENGTH OR		0.004 /	MSFC -	LL INTERNATIONAL	APRIL, 1974
589 /	GS ON A 0.004 SCA	(034)(T14)(S12)	BITER/EXTERNAL TA		0.6 -	14-INCH TRISON	TOM HAMILTON/ROCK	
TWT -	LE MODEL ROCKWELL		NK FAIRING ON		5.0	IC WIND TUNNEL	WELL INTERNATIONA	
IA62F	SPACE SHUTTLE INT		AXIAL FORCE			TRISONIC WIND	L SPACE DIVISION	
CR-134,094	EGRATED VEHICLE A					TUNNEL	J. E. VAUGHN	
	ERODYNAMIC CHARAC						G. G. MCDONALD	
	TERISTICS AT MACH						-DMS	
	NUMBERS FROM 0.6							
	TO 4.96 (IA62F)							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 717 / OA62B CR-134,112	INVESTIGATION OF SPACE SHUTTLE ORB ITER SUBSONIC STA BILITY AND CONTRO L CHARACTERISTICS IN THE NAAL LOW SPEED WIND TUNNEL (OA62B)	140A/B SSV ORBITE R	ESTABLISH BASIC L ONGITUDINAL STABI LITY CHARACTERIST ICS IN AND OUT OF GROUND EFFECT AN D LATERAL-DIRECTI ONAL STABILITY CH ARACTERISTICS IN FREE AIR	FORCE	0.0405 / 0.12 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL/RI SPA CE DIVISION T. HUGHES/RI SPAC E DIVISION M. M. MANN -DMS	DMS-DR-2104 VOLUME 01 JULY, 1974
NRLAD - LSWT - 717 / OA62B CR-134,113	INVESTIGATION OF SPACE SHUTTLE ORB ITER SUBSONIC STA BILITY AND CONTROL CHARACTER ISTICS IN THE NAA L LOW SPEED WIND TUNNEL (OA62B)	140A/B SSV ORBITE R	ESTABLISH BASIC L ONGITUDINAL STABI LITY CHARACTERIST ICS IN AND OUT OF GROUND EFFECT AND LATERAL-DIREC TIONAL STABILITY CHARACTERISTICS IN FREE AIR.	FORCE	0.0405 / 0.12 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL / ROCK WELL INTERNATIONA L / SPACE DIVISIO N T. HUGHES / ROCK WELL INTERNATIONA L / SPACE DIVISIO N M. M. MANN -DMS	DMS-DR-2104 VOLUME 02 AUGUST, 1974
LARC - 8VDHT - 646/647 / IH17 CR-144,594	TRANSITION HEATIN G RATES OBTAINED ON A MATED AND IS OLATED 0.006 SCAL E MODEL (41-OT) S PACE SHUTTLE ORBI TER AND EXTERNAL TANK IN THE NASA/ LARC VARIABLE DEN SITY HYPERSONIC T UNNEL	ORBITER + EXTERNA L TANK, SSV MODEL 41-OTS EXTERNAL TANK ALO NE, SSV MODEL 41- OTS ORBITER ALONE, SS V MODEL 41-OTS	TO INVESTIGATE AS CENT HEATING OF T HE COMBINED TANK AND ORBITER	HEAT-TRANS	8.0 - 8.0	LARC / LARC - MACH 8 VARIABL E-DENSITY HYPE RSONIC TUNNEL	J. CUMMINGS/RI D. A. SARVER J. E. VAUGHN -DMS	DMS-DR-2105 SEPT., 1976
LARC - UPWT - 1046/1049/ LA14A LA14B TM-X 72630	SUPERSONIC DYNAMI C STABILITY DERIV ATIVES OF A MODIF IED 089B SHUTTLE ORBITER	089B ORB.W/MOD NO SE	MEASURE DYNAMIC S TABILITY DERIVATI VES (SEE ALSO LA-20 F OR LOW MACH NO.DA TA)	FORCE	.0165 /	LARC / LARC - UNITARY PLAN W IND TUNNEL	D.C. FREEMAN, R.P . BOYDEN, E.E. DA VENPORT/LARC J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2106 JAN., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	SUBSONIC AND TRAN	089B ORBITERW/MOD	MEASURE DYNAMIC S	FORCE	.0165 /	LARC /	D. C. FREEMAN/NAS	DMS-DR-2107
8VDHT -	SONIC DYNAMIC STA	. NOSE	TABILITY DERIVATI		.3 -	LARC -	A-LARC	MARCH, 1975
653 /	BILITY DERIVATIVE		VES		1.2	MACH 8 VARIABL	J. E. VAUGHN	
LA20	S OF A		(SEE ALSO LA-14 T			E-DENSITY HYPE	J. E. VAUGHN	
TM-X	MODIFIED 089B SHU		EST RESULTS FOR H			RSONIC TUNNEL	-DMS	
72631	TTLE ORBITER		IGHER MACH NO. DA					
			TA)					
LARC -	RESULTS OF TESTS	B26C9E26F8M7N25R5	OBTAIN LOCAL PRES	FORCE	0.015 /	LARC /	D. E. THORNTON AN	DMS-DR-2108
UPWT -	(OA64 AND IA35) O	N116	SURE DISTRIBUTION		2.5 -	LARC -	D R. H. SPANGLER/	MAY, 1974
1063 /	F AN 0.015-SCALE	B26C9E26F8M7N25R5	S ON ORBITER FUSE		4.5	UNITARY PLAN W	ROCKWELL INTERNAT	
IA35	MODEL (36-OTS) OF	N116S12T12	LAGE TO SUPPORT V			IND TUNNEL	IONAL	
OA64	THE SPACE SHUTTL		ENTING STUDIES AN				B. W. MYERS	
CR-134,084	E CONFIGURATION 1		D TO DETERMINE EF				-DMS	
	40A/B IN THE NASA		FECT OF ELEVON DE					
	/LARC UNITARY PLA		FLECTIONS IN THE					
	N WIND TUNNEL		AFT PORTION OF TH					
			E ORBITER FUSELAG					
			E					
LARC -	ENTRY HEAT TRANSF	147B CONFIGURATIO	TO DETERMINE THE	HEAT-TRANS	6.0 -	LARC /	J. W. FOUST,RI	DMS-DR-2109
CF4 -	ER TESTS OF THE O	N ORBITER MODEL (	EFFECTS OF THE LO		6.0	LARC -	R. E. MIDDEN,LARC	JAN., 1976
121-137 /	.006-SCALE SPACE	50-O)	W FREON SPECIFIC			FREON TUNNEL	J. E. VAUGHN	
OH45	SHUTTLE (-147B) O		HEAT RATIO ON THE				R. H. LINDAHL	
CR-141,527	RBITER MODEL (50-		HEATING DISTRIBUT				-DMS	
	O) IN THE LANGLEY		IONS AND TO DETER					
	RESEARCH CENTER		MINE THE IMPINGEM					
	FREON TUNNEL AT M		ENT OF THE ORBITE					
	ACH 6 (OH45)		R BOW SHOCK ON TH					
			E WING.					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CF4 - 97-118 / IH18 CR-144,589	HEAT TRANSFER TESTS OF AN 0.006-SCALE THIN-SKIN SPACE SHUTTLE THERMOCOUPLE MODEL (41-OT) IN THE LANGLEY RESEARCH CENTER FREON TUNNEL AT M = 6 (IH18)	ORBITER CONFIGURATION 2A EXTERNAL TANK	TO OBTAIN ASCENT HEATING DATA AT CONDITIONS SIMULATING REAL GAS EFFECTS AT HYPERSONIC MACH NUMBERS	HEAT-TRANS	6.0 -	LARC / LARC - FREON TUNNEL	D. G. WALSTAD/ ROCKWELL INTERNATIONAL J. E. VAUGHN M. M. MANN -DMS	DMS-DR-2110 JAN., 1976
MSFC - 14TWT - 590/595 / SA26F CR-134,435	REENTRY AERODYNAMIC CHARACTERISTICS OF A SPACE SHUTTLE SOLID ROCKET BOOSTER MODEL 449 TESTED IN MSFC 14 X 14 INCH TWT	MODEL 449/CONF.NBRE1, NBRE1A, NBRE1B, NBRE1S1ELT	TO EVALUATE STATIC AERODYNAMIC STABILITY OF AN SRB.	FORCE	0.563 / 0.6 - 4.96	LARC / MSFC - 14-INCH TRISONIC WIND TUNNEL	J. D. JOHNSON W. F. BRADDOCK/NSI J. E. VAUGHN -DMS	DMS-DR-2111 NOV., 1974
AEDC - SWTA - VA422 / IA57 CR-134,401	AERODYNAMIC RESULTS OF WIND TUNNEL SEPARATION TESTS ON A 0.01-SCALE MODEL (32-OTS) SPACE SHUTTLE INTEGRATED VEHICLE (IA57)	INTEGRATED VEHICLE (CONFIGURATION 3)	DETERMINE PROXIMITY FORCE AND MOMENTS FOR ORB.AND E.T. AND SRB W AND W/O SEPARATION ROCKETS FIRING.	FORCE	0.01 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J.J. DAILEDA/RI J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2112 NOV., 1974
LARC - CFHT - 101 / OA85 CR-134,111	EFFECTS OF REACTION CONTROL SYSTEM JET FLOW FIELD INTERACTIONS ON THE AERODYNAMIC CHARACTERISTICS OF A 0.010 SCALE SPACE SHUTTLE ORBITER MODEL IN THE LANGLEY RESEARCH CENTER 31-INCH CFHT	VL70-000139	OBTAIN DETAILED EFFECTS ON SSV HYPERSONIC AERODYNAMIC AND STABILITY AND CONTROL CHARACTERISTICS OF RSC JET FLOW FIELD INTERACTION WITH THE LOCAL VEHICLE FLOW FIELD.	FORCE	0.010 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	T. A. BLACKSTOCK /LARC - J. J. DAILEDA, J. MARROQUIN /RI M. M. MOSER JR. -DMS	DMS-DR-2113 OCT., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD -	AERODYNAMIC INVES	B30 THRU B50C9M7F	INVESTIGATION OF	FORCE	0.0405 /	NRLAD /	R. C. MENNELL/RI	DMS-DR-2114
LSWT -	TIGATIONS INTO VA	8W116E26V8R5X9	VARIOUS BASE DRAG		0.2 -	NRLAD -	D. A. SARVER	JUNE, 1974
716 /	RIOUS LOW SPEED L		REDUCTION TECHNI		0.2	LOW SPEED WIND	G. G. MCDONALD	
0A86	/D IMPROVEMENT		QUES IN AN			TUNNEL	-DMS	
CR-134,098	DEVICES ON THE 14		ATTEMPT TO IMPROV					
	0A/B SPACE SHUTTL		E L/D RATIOS AND					
	E ORBITER CONFIGU		TO CALCULATE STIN					
	RATION IN THE RI		G INTERFERENCE					
	NAAL WIND TUNNEL		EFFECTS					
	(0A86)							
ARC -	RESULTS OF INVEST	140A/B	VERIFY SUPERSONIC	FORCE	0.015 /	ARC /	M. T. PETROZZI AN	DMS-DR-2115
3.5HWT -	IGATIONS ON A 0.0		STABILITY AND CO		5.3 -	ARC -	D M. D. MILAM/ROC	MARCH, 1974
176 /	15-SCALE MODEL (4		NTROL CHARACTERIS		10.0	3.5-FOOT HYPER	KWELL INTERNATION	
0A87	9-0) OF THE SPACE		TICS, VERIFY CONT			SONIC WIND TUN	AL	
CR-134,085	SHUTTLE ORBITER		ROL SURFACE EFFEC			NEL	J. A. MELLENTHIN/	
	IN THE NASA/AMES		TIVENESS AND INVE				AMES RESEARCH CEN	
	3.5-FOOT HYPERSON		STIGATE REYNOLDS				TER	
	IC WIND TUNNEL (0		NUMBER EFFECT				B. W. MYERS	
	A87)						-DMS	
NRLAD -	EFFECT OF THE SIX	B19C7F5J59W107E23	EFFECT OF THREE A	FORCE	0.015 /	NR /	H. C. SMITH /RI	DMS-DR-2116
7TWT -	ENGINE AIR BREAT	V7R5X20 + NACELLE	IR BREATHING PROP		0.5 -	NRLAD -	D. A. SARVER	APRIL, 1974
278 /	HING PROPULSION S	RAKES	ULSION SYSTEM FER		0.9	7-FOOT TRISONI	G. G. MCDONALD	
0A91	YSTEM ON SPACE		RY/FLIGHT TEST			C WIND TUNNEL	-DMS	
CR-134,888	SHUTTLE ORBITER S		CONFIGURATIONS ON					
	UBSONIC AND TRANS		TRANSONIC DRAG R					
	ONIC STABILITY AN		ISE, ELEVON EFFEC					
	D CONTROL		TIVENESS,					
	CHARACTERISTICS (		LONG. STABILITY,					
	0A91)		AND LAT-DIR STAB					
			OF THE -139B SHUT					
			TLE ORBITER					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8VDHT - 648 / OH14 CR-147,617	TRANSITION HEATING RATES DETERMINED ON A 0.006 SCALE SPACE SHUTTLE ORBITER MODEL (NO. 50-O) IN THE NASA/LARC MACH 8 VARIABLE DENSITY WIND TUNNEL TEST (OH14)	B22C7F5M4V7W111	PERFORMED TO DETERMINE TRANSITION HEATING RATES USING THIN SKIN THERMOCOUPLES.	HEAT-TRANS	.006 / 8.0 - 8.0	LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL	J. CUMMINGS/ROCKWELL INTERNATIONAL R. RAPARELLI/ROCKWELL INTERNATIONAL G. G. MCDONALD -DMS	DMS-DR-2117 SEPT., 1976
LARC - 8TPT - 667 / IA41 CR-134,108	RESULTS OF TRANSONIC WIND TUNNEL TESTS ON AN 0.015 SCALE SPACE SHUTTLE MATED VEHICLE MODEL(67-OTS) IN THE LARC 8-FOOT TPT (IA41)	MATED INTEGRATED VEHICLE MODEL(67-OTS)	LONG. AND LAT.-DIRECT STAB. CHAR. DURING CONFIG BUILD-UP. (SEE ALSO IA42A/B TEST RESULTS FOR HIGHER MACH NO. DATA)	FORCE	0.015 / 0.6 - 1.20	ROCKWELL/ LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	R. HARDIN/ R. BURROWS- ROCKWELL J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2118 AUGUST, 1974
LARC - UPWT - 1056/1073/ IA42A IA42B CR-134,109	SUPERSONIC TESTS OF AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE MODEL (67-OTS) IN THE LARC UPWT TO OBTAIN AERODYNAMIC FORCE DATA	CONFIGURATION 4 MATED SSV (67-OTS)	TO OBTAIN AERODYNAMIC FORCE DATA	FORCE	0.015 / 1.6 - 4.6	ROCKWELL/ LARC - UNITARY PLAN WIND TUNNEL	R. HARDIN, R. BURROWS/RI D. A. SARVER J. E. VAUGHN -DMS	DMS-DR-2119 AUGUST, 1974
LARC - 8TPT - 668 / OA106 CR-134,426	WIND TUNNEL TESTS OF AN 0.015-SCALE CONFIGURATION 140A/B SPACE SHUTTLE ORBITER MODEL (67-O) IN THE NASA/LRC 8-FOOT TPT TO OBTAIN TRANSONIC AERODYNAMIC FORCE DATA (OA106)	ORBITER	EFFECT OF SPEEDBRAKE AND BODY FLAP	FORCE	0.015 / 0.35 - 1.2	R.I. / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2120 JAN., 1975

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LARC - 8TPT - 669 / LA38A	TRANSONIC AERODYN AMIC INVESTIGATIO N OF CONFIGURATIO N MODIFICATIONS TO RI-140A/B FOR EXTENDING CENTER OF GRAVITY RANGE	TASK CANCELLED, J ULY, 1975	TEST CANCELLED, J ULY 1975	FORCE	0.015 / 0.35 - 1.2	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	W.P. PHILLIPS D.C. FREEMAN, JR. V. W. SPARKS V. W. SPARKS -DMS	DMS-DR-2121 TASK CANCELLED JULY, 1975
NRLAD - 7TWT - 280 / IA69 CR-134,424	INVESTIGATION OF SPACE SHUTTLE LAU NCH VEHICLE EXTER NAL TANK NOSE CON FIGURATION EFFECT S (MODEL 67-OTS) IN THE ROCKWELL I NTERNATIONAL 7- B Y 7-FOOT TRISONIC WIND TUNNEL (IA6 9)	LAUNCH CONFIGURAT ION (MODEL 67-OTS)	QUALIFY A NEW EXT ERNAL TANK NOSE C ONFIGURATION	PRESSURE FORCE	0.015 / 1.1 - 1.2	RI / NRLAD - 7-FOOT TRISONI C WIND TUNNEL	R.L. ROGGE / ROCK WELL INTERNATIONA L D. A. SARVER V. W. SPARKS -DMS	DMS-DR-2122 DEC., 1974
MSFC - 14TWT - 588 / IA53 CR-141,504	RESULTS FROM INVE STIGATIONS IN THE NASA/MSFC TWT ON A 0.004 SCALE MO DEL SPACE SHUTTLE LAUNCH VEHICLE (MODEL 13P-OTS) TO DETERMINE GAS SU PPLY STRUT EFFECT ON MODEL PRESSUR E ENVIRONMENT (IA 53)	LAUNCH CONFIGURAT ION LAUNCH CONFIGURAT ION WITH STRUTS LAUNCH CONFIGURAT ION WITH ORBITER / ET GAS SUPPLY F AIRINGS	DETERMINE EFFECT OF GAS SUPPLY STR UT CONFIGURATIONS ON AFT AND BASE PRESSURE ENV IRONMENTS OF SPAC E SHUTTLE LAUNCH VEHICLE	PRESSURE FORCE	0.004 / 0.9 - 2.99	R.I. / MSFC - 14-INCH TRISON IC WIND TUNNEL	W. GARTON / ROCKW ELL INTERNATIONAL V. W. SPARKS V. W. SPARKS -DMS	DMS-DR-2123 JAN., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 180 / IA16 OA26 CR-134,093	RESULTS OF TESTS OA26 AND IA16 IN THE NASA/ARC 3.5- FOOT HYPERSONIC WIND TUNNEL ON A 0.015 SCALE MODEL (36-OTS) OF THE SPACE CONFIGURATI ON 140A/B TO OBTA IN PRESSURES FOR VENTING ANALYSIS	140A/B ORBITER CO NFIGURATION VEHICLE 4 EXTERNA L TANK PLUS 140A/ B ORBITER	DETERMINE SURFACE STATIC PRESSURE DISTRIBUTIONS ON THE ORBITER FUSEL AGE, FOR BOTH THE ASCENT AND ENTRY FLIGHT PHASES, E O SUPPORT ORBITER VENTING STUDIES	PRESSURE	1.0 / 5.3 - 10.3	ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	R. H. SPANGLER AN D D. E. THORNTON/ ROCKWELL INTERNAT IONAL B. W. MYERS -DMS	DMS-DR-2124 MAY, 1974
LARC - 22HT - 422 / OA88 CR-134,409	HYPERSONIC STABIL ITY AND CONTROL C HARACTERISTICS AN D REYNOLDS NUMBER EFFECTS OF THE RO CKWELL SSV 140 A/ B ORBITER CONFIGU RATION	BODY ALONE (-140A /B) ORBITER (-140A/B)	TO DETERMINE HYPE RSONIC STABILITY AND CONTROL CHARA CTERISTICS AND REYNOLDS NUMBER E FFECT ON ROCKWELL -140 A/B ORBITER	FORCE	0.004 / 18.1 - 21.6	R/I / LARC - 22-INCH HELIUM TUNNEL	DAVID R. STONE /N ASA-LARC P. HAWTHORNE /RI J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2125 SEPT., 1974
LARC - CFHT - 100 / LA25	EFFECTS OF REACTI ON CONTROL SYSTEM JET SIMULATION O N THE HYPERSONIC PERFORMANCE, STAB ILITY AND CONTROL CHARACTERISTICS OF A .01 SCALE ROCKWELL INTERNAT IONAL 139B ORBITE R CONFIGURATION	TASK CANCELLED, D EC., 1976	TEST CANCELLED, D ECEMBER 1976	FORCE	0.01 / 10.3 - 10.3	LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	TOM BLACKSTOCK /N ASA-LARC J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2126 TASK CANCELLED DEC., 1976
LARC - CFHT - 102 / LA35 TM-X 71954	REYNOLDS NUMBER E FFECTS AT MACH NU MBER 10.3 ON AERO DYNAMIC CHARACTERISTICS O F .01 SCALE 139-B ORBITER	-139 B ORBITER WI TH VARIOUS CONTRO L DEFLECTIONS	EFFECT OF REYNOLD S NUMBER ON ORBIT ER AERO. CHARACTE RISTICS	FORCE	0.01 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	PETER T. BERNOT J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2127 JULY, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 11TWT 747 OA53A CR-134,114	INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE CONFIGURATION 140A/B ORBITER MODEL IN THE AMES RESEARCH CENTER11-BY11-FOOT SUPER-SONIC WIND TUNNEL (OA53A)	140A/B	THE PRIMARY TEST OBJECTIVES ARE TO OBTAIN CONFIGURATION 140 A/B STABILITY AND CONTROL CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS, CONTROL SURFACE HINGE MOMENTS, AND VERTICAL TAIL PANEL LOADS.	FORCE	0.03 / 0.6 - 1.2	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	MARK E. NICHOLS / RI M. M. MANN -DMS	DMS-DR-2128 VOLUME 01 AUGUST, 1974
ARC 11TWT 747 OA53A CR-134,115	INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE CONFIGURATION 140A/B ORBITER MODEL IN THE AMES RESEARCH CENTER 11-BY11-FOOT SUPER-SONIC WIND TUNNEL (OA53A)	140A/B	THE PRIMARY TEST OBJECTIVES ARE TO OBTAIN CONFIGURATION 140A/B STABILITY AND CONTROL CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS, CONTROL SURFACE HINGE MOMENTS,AND VERTICAL TAIL PANEL LOADS.	FORCE	0.03 / 0.6 - 1.2	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	MARK E. NICHOLS / RI M. M. MANN -DMS	DMS-DR-2128 VOLUME 02 AUGUST, 1974
ARC 97SWT 716 IA14B CR-141,522	AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 9- BY 7-FOOT UNITARY PLAN WIND TUNNEL FOR MACH 1.55 AND 2.2 (IA14B)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE. FORCE DATA WERE TAKEN ALSO.	PRESSURE FORCE	0.030 / 1.55 - 2.2	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. L. GILLENS / ROCKWELL E. CHEE / ROCKWELL D. A. [illegible] J.T [illegible] -DMS	DMS-DR-2129 VOLUME 01 MAY, 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 716 / IA14B CR-141,523	AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B LAUNCH CONFIGURATION (MODE' 47-OTS) IN THE ARC 9- BY 7-FOOT UNITARY PLAN WIND TUNNEL FOR MACH 1.55 AND 2.2 (IA14B)	SSV 140A/B LAUNCH	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE. FORCE DATA WERE TAKEN ALSO.	PRESSURE FORCE	0.030 / 1.55 - 2.2	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS / ROCKWELL E. CHEE / ROCKWELL D. A. SARVER J.T.DAVIET-DMS	DMS-DR-2129 VOLUME 02 MAY, 1975
ARC - 11TWT - 716 / OA22A CR-141,529	AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A/B ORBITER CONFIGURATION (MODEL 47-O) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH 0.6 AND 0.9 (OA22A)	SSV 140A/B ORBITER	OBTAIN PRESSURE DISTRIBUTIONS ON ORBITER ALONE. FORCE DATA WERE ALSO TAKEN.	FORCE PRESSURE	0.030 / 0.6 - 0.9	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. L. GILLENS / ROCKWELL F. CHEE / ROCKWELL D. A. SARVER J.T.DAVIET-DMS	DMS-DR-2130 MAY, 1975
ARC - 97SWT - 716 / OA22B CR-141,530	AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE 140A/B ORBITER CONFIGURATION (MODEL 47-O) IN THE ARC 9- BY 7-FOOT UNITARY PLAN WIND TUNNEL FOR MACH 1.55 AND 2.2 (OA22B)	SSV 4 140A/B ORBITER	OBTAIN PRESSURE DISTRIBUTIONS ON ORBITER ALONE. FORCE DATA WERE ALSO TAKEN	PRESSURE FORCE	0.030 / 1.55 - 2.2	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. L. GILLENS / ROCKWELL F. CHEE / ROCKWELL D. A. SARVER J.T.DAVIET-DMS	DMS-DR-2131 MAY, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - 48A / LA42 CR-141,535	RESULTS OF DYNAMIC STABILITY TESTS CONDUCTED ON A .012 SCALE MODIFIED 089 B SHUTTLE ORBITER IN THE AEDC-VKF TUNNEL B AT A MACH NUMBER OF 8.0 (LA42)	-089B W/MOD NOSE	HYPERSONIC DY' AMIC STABILITY	FORCE	0.012 / 8.0 - 8.0	LARC / AEDC - HYPERSONIC WIND TUNNEL (B)	DELMAR FREEMAN/LARC J. E. VAUGHN J.T.DAVIET -DMS	DMS-DR-2132 MAY, 1975
LARC - CFHT - 107 / IA58 CR-134,110	RESULTS OF TESTS IN THE NASA/LARC 31-INCH CFHT ON A N 0.010-SCALE MODEL (32-OT) OF THE SPACE SHUTTLE CONFIGURATION 3 TO OBTAIN HYPERSONIC AERODYNAMIC CHARACTERISTICS FOR SECOND STAGE OPERATION DURING NOMINAL BOOST AND THE ABORT RTLS MODE	ORBITER EXTERNAL TANK	OBTAIN HYPERSONIC STABILITY DATA ON ORBITER - EXTERNAL TANK WITH AND WITHOUT PLUME AND BEAM	FORCE	0.010 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D. E. THORNTON/RI T. BLACKSTOCK / NASA/LARC D. A. SARVER V. W. SPARKS -DMS	DMS-DR-2133 JULY, 1974
AEDC - HWTB - VA474 / HWTC - OA77 OA78 CR-134,429	RESULTS OF INVESTIGATIONS (OA77 AND OA78) ON AN 0.015-SCALE 140A/B CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 49-O IN THE AEDC VKF B AND C WIND TUNNELS	ORBITER -140A/B CONFIG.	HYPERSONIC STABILITY AND CONTROL CONTROL SURFACE EFFECTIVENESS REYNOLDS NUMBER EFFECTS	FORCE	0.015 / 6.0 1- 0. .	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B) HYPERSONIC WIND TUNNEL (C)	R.L. GILLINS/ROCKWELL J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2134 REVISION 01 JAN., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -		TASK CANCELLED, A	TEST CANCELLED, A	FORCE	10.3 -	NASA /	T. BLACKSTOCK /NA	DMS-DR-2135
CFHT -		UGUST, 1974	UGUST 1974		.	LARC -	SA-LARC	TASK
99 /						CONTINUOUS-FLO	J. E. VAUGHN	CANCELLED
LA13						W HYPERSONIC T	J. E. VAUGHN	AUGUST, 1974
						UNNEL	-DMS	
ARC -	RESULTS OF HEAT T	B17 C7 M4 F5 W103	TO OBTAIN HEAT RA	HEAT-TRANS	0.0175 /	ARC /	T.F. FOSTER,W.H.	DMS-DR-2136
3.5HWT -	RANSFER TESTS OF	E22 V7 R5	TE DATA FOR THE F		5.3 -	ARC -	DYE/RI	VOLUME 01
178 /	AN 0.0175-SCALE S	T10	IRST AND SECOND S		5.3	3.5-FOOT HYPER	W.K. LOCKMAN,H.L.	MAY, 1975
IH3	PACE SHUTTLE VEHI	B17 C7 M4 F5 W103	TAGE VEHICLES AND			SONIC WIND TUN	SEEGMILLER/NASA	
CR-141,514	CLE MODEL 22 OTS	E22 V7 R5	TO INVESTIGATE I			NEL	AMES	
	IN THE NASA-AMES	B17 C7 M4 F5 W103	NTERFERENCE HEATI				B. J. FRICKEN	
	3.5-FOOT HYPERSON	E22 V7 R5 T10 S8	NG EFFECTS				-DMS	
	IC WIND TUNNEL							
	(IH3)							
ARC -	RESULTS OF HEAT T	B17 C7 M4 F5 W103	TO OBTAIN HEAT RA	HEAT-TRANS	0.0175 /	ARC /	T.F. FOSTER,W.H.	DMS-DR-2136
3.5HWT -	RANSFER TESTS OF	E22 V7 R5	TE DATA FOR THE F		5.3 -	ARC -	DYE/RI	VOLUME 02
178 /	AN 0.0175-SCALE S	T10	IRST AND SECOND S		5.3	3.5-FOOT HYPER	W.K. LOCKMAN,H.L.	MAY, 1975
IH3	PACE SHUTTLE VEHI	B17 C7 M4 F5 W103	TAGE VEHICLES AND			SONIC WIND TUN	SEEGMILLER/NASA	
CR-141,515	CLE MODEL 22 OTS	E22 V7 R5 T10	TO INVESTIGATE I			NEL	AMES	
	IN THE NASA-AMES		NTERFERENCE HEATI				B. J. FRICKEN	
	3.5-FOOT HYPERSON		NG EFFECTS				-DMS	
	IC WIND TUNNEL							
	(IH3)							
ARC -	RESULTS OF HEAT T	B17 C7 M4 F5 W103	TO OBTAIN HEAT RA	HEAT-TRANS	0.0175 /	ARC /	T.F. FOSTER,W.H.	DMS-DR-2136
3.5HWT -	RANSFER TESTS OF	E22 V7 R5	TE DATA FOR THE F		5.3 -	ARC -	DYE/RI	VOLUME 03
178 /	AN 0.0175-SCALE S	T10	IRST AND SECOND S		5.3	3.5-FOOT HYPER	W.K. LOCKMAN,H.L.	MAY, 1975
IH3	PACE SHUTTLE VEHI	B17 C7 M4 F5 W103	TAGE VEHICLES AND			SONIC WIND TUN	SEEGMILLER/NASA	
CR-141,516	CLE MODEL 22 OTS	E22 V7 R5 T10	TO INVESTIGATE I			NEL	AMES	
	IN THE NASA-AMES	B17 C7 M4 F5 W103	NTERFERENCE HEATI				B. J. FRICKEN	
	3.5-FOOT HYPERSON	E22 V7 R5 T10 S8	NG EFFECTS				-DMS	
	IC WIND TUNNEL							
	(IH3)							

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ARC - 3.5HWT - 178 / IH3 CR-141,517	RESULTS OF HEAT TRANSFER TESTS OF AN 0.0175-SCALE SPACE SHUTTLE VEHICLE MODEL 22 OTS IN THE NASA-AMES 3.5-FOOT HYPERSONIC WIND TUNNEL (IH3)	B17 C7 M4 F5 W103 E22 V7 R5 T10 B17 C7 M4 F5 W103 E22 V7 R5 T10 B17 C7 M4 F5 W103 E22 V7 R5 T10 S8	TO OBTAIN HEAT RATE DATA FOR THE FIRST AND SECOND STAGE VEHICLES AND TO INVESTIGATE INTERFERENCE HEATING EFFECTS	HEAT-TRANS	0.0175 / 5.3 - 5.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	T.F. FOSTER,W.H. DYE/RI W.K. LOCKMAN,H.L. SEEGMILLER/NASA AMES B. J. FRICKEN -DMS	DMS-DR-2136 VOLUME 04 MARCH, 1976
LARC - CFHT - 108 / IA60 CR-134,103	RESULTS OF TESTS IN THE NASA/LARC 31-INCH CFHT ON A 0.01-SCALE MODEL (32-OT) OF THE SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE THE RCS JET FLOWFIELD INTERACTION EFFECTS ON AERODYNAMIC CHARACTERISTICS (IA60/OA105) VOLUME 1 OF 2	CONFIGURATION 3, MODEL 32-O)	DETERMINE EFFECTS OF RCS JET FLOW FIELD ON HYPERSONIC STABILITY AND CONTROL	FORCE	0.01 / 10.33- 10.33	NASA/NR / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D.E. THORNTON /RI D. E. POUCHER -DMS	DMS-DR-2137 VOLUME 01 REVISION 01 SEPT., 1974
LARC - CFHT - 109 / OA105 CR-134,106	RESULTS OF TESTS IN THE NASA/LARC 31-INCH CFHT ON A 0.01-SCALE MODEL (32-OT) OF THE SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE THE RCS JET FLOWFIELD INTERACTION EFFECTS ON AERODYNAMIC CHARACTERISTICS (IA60/OA105)	CONFIGURATION3, MODEL 32-O	DETERMINE EFFECTS OF RCS JET FLOW FIELD ON HYPERSONIC STABILITY AND CONTROL	FORCE	0.01 / 10.33- 10.33	NASA/NR / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D.E. THORNTON /RI D. E. POUCHER -DMS	DMS-DR-2137 VOLUME 02 JULY, 1974

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1059 / IH4 CR-144,608	AEROHEATING(PRESSURE) CHARACTERISTICS OF A 0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION(26-OTS) IN THE LANGLEY RESEARCH CENTER 4-FOOT WIND TUNNEL(IH4)	0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	TO OBTAIN PRESSURE MEASUREMENTS ON THE LAUNCH CONFIGURATION, ORBITER ALONE, EXTERNAL TANK ALONE, AND SOLID ROCKET BOOSTER ALONE; ALSO TO OBTAIN HEAT TRANSFER DATA	PRESSURE	0.010 / 2.36 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	B. SPENCER, JR./LARC, R.B. KINGSLAND/RI R. H. LINDAHL -DMS	DMS-DR-2138 VOLUME 01 MAY, 1976
LARC - UPWT - 1059 / IH4 CR-144,609	AEROHEATING(PRESSURE) CHARACTERISTICS OF A 0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION(26-OTS) IN THE LANGLEY RESEARCH CENTER 4-FOOT WIND TUNNEL(IH4)	0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	TO OBTAIN PRESSURE MEASUREMENTS ON THE LAUNCH CONFIGURATION, ORBITER ALONE, EXTERNAL TANK ALONE, AND SOLID ROCKET BOOSTER ALONE; ALSO TO OBTAIN HEAT TRANSFER DATA	PRESSURE	0.010 / 2.36 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	B. SPENCER, JR./LARC, R.B. KINGSLAND/RI R. H. LINDAHL -DMS	DMS-DR-2138 VOLUME 02 JULY, 1976
LARC - UPWT - 1059 / IH4 CR-144,610	AEROHEATING(PRESSURE) CHARACTERISTICS OF A 0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION(26-OTS) IN THE LANGLEY RESEARCH CENTER 4-FOOT WIND TUNNEL(IH4)	0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	TO OBTAIN PRESSURE MEASUREMENTS ON THE LAUNCH CONFIGURATION, ORBITER ALONE, EXTERNAL TANK ALONE, AND SOLID ROCKET BOOSTER ALONE; ALSO TO OBTAIN HEAT TRANSFER DATA	PRESSURE	0.010 / 2.36 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	B. SPENCER, JR./LARC, R.B. KINGSLAND/RI R. H. LINDAHL -DMS	DMS-DR-2138 VOLUME 03 JULY, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1059 / IH4 CR-144,611	AEROHEATING(PRESSURE) CHARACTERISTICS OF A 0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION(26-OTS) IN THE LANGLEY RESEARCH CENTER 4-FOOT WIND TUNNEL(IH4)	0.010-SCALE VERSION OF THE VEHICLE 3 SPACE SHUTTLE CONFIGURATION	TO OBTAIN PRESSURE MEASUREMENTS ON THE LAUNCH CONFIGURATION, ORBITER ALONE, EXTERNAL TANK ALONE, AND SOLID ROCKET BOOSTER ALONE; ALSO TO OBTAIN HEAT TRANSFER DATA	PRESSURE	0.010 / 2.36 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	B. SPENCER, JR./LARC, R.B. KINGSLAND/RI R. H. LINDAHL -DMS	DMS-DR-2138 VOLUME 04 JULY, 1976
NRLAD - LSWT - 724 / OA118 CR-134,407	EFFECT OF ELEVON GAP CONFIGURATIONS ON THE LONGITUDINAL AND LATERAL/DIRECTIONAL STABILITY AND CONTROL EFFECTIVENESS OF THE 43-O SPACE SHUTTLE ORBITER (IA60/OA105)	VL70-000140A/B, MODEL 43-0	ESTABLISH EFFECT OF NEW ELEVON GAP CONFIG. ON LONGITUDINAL AND LAT/DIRECT STABILITY AND CONTROL EFFECTIVENESS. MODEL 43-0	FORCE	0.0405 / 0.20 - 0.26	RI / NRLAD - LOW SPEED WIND TUNNEL	TERRANCE HUGHES / RI D. E. POUCHER -DMS	DMS-DR-2139 OCT., 1974
NRLAD - LSWT - 719 / OA37 CR-134,408	INVESTIGATION OF SPACE SHUTTLE ORBITER SUBSONIC STABILITY AND CONTROL CHARACTERISTICS AND DETERMINATION OF CONTROL SURFACE HINGE MOMENTS IN THE ROCKWELL INTERNATIONAL LOW SPEED WIND TUNNEL (OA37)	140 A/B SPACE SHUTTLE ORBITER	ESTABLISH BASIC LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS FOR THE BASIC CONFIGURATION PLUS CONTROL SURFACE HINGE MOMENTS	FORCE	0.030 / 0.26 - 0.26	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	TERRANCE HUGHES/ROCKWELL INTERNATIONAL W.M. ZEMAN/ROCKWELL INTERNATIONAL D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2140 SEPT., 1974

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AEDC - HWTB - VA354 / OH11 CR-141,538	RESULTS OF TESTS OF A ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER (-139 CONFIGURATION) 0.0175-SCALE MODEL (NO.29-O) IN THE AEDC TUNNEL F TO DETERMINE HYPERSONIC HEATING EFFECTS (OH11)	MODEL NO. 29-O/VL70-000139	TO DETERMINE MACH NUMBER EFFECTS AND TO OBTAIN OVERALL HEATING RATE DATA AT MACH NUMBERS FROM 10.5 TO 16	HEAT-TRANS	0.0175 / 10.5 - 14	AEDC / AEDC - HYPERSONIC WIND TUNNEL (B)	M. QUAN/RI A. BOUDREAUX/ARO W. B. MEINDERS -DMS	DMS-DR-2141 JUNE, 1975
MSFC - 14TWT - 587 / FA4 CR-134,402	DETERMINATION OF AERODYNAMIC STABILITY AND DRAG OF THE TITAN SRM DURING ENTRY	TITAN III C SRM	STATIC STABILITY AND DRAG ON TITAN SRM AT HIGH ANGLES OF ATTACK	FORCE	.00736 / 0.6 - 4.96	NASA / MSFC - 14-INCH TRISONIC WIND TUNNEL	PAUL RAMSEY/ NASA MSFC V. W. SPARKS -DMS	DMS-DR-2142 AUGUST, 1974
AEDC - SWTA - VA422 / IA61A CR-144,587	AERODYNAMIC RESULTS OF WIND TUNNEL TESTS ON AN 0.010-SCALE MODEL (32-OTS) SPACE SHUTTLE INTEGRATED VEHICLE IN THE AEDC VKF 40-INCH SUPERSONIC WIND TUNNEL	INTEGRATED VEHICLE- CONFIGURATION 3 LINES	PROXIMITY EFFECTS W AND W/O SEPARATION ROCKETS FIRING	FORCE	0.01 / 4.5 - 4.5	AEDC / AEDC - SUPERSONIC WIND TUNNEL (A)	J.DAILEDA/ RI J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2143 FEB., 1976
NRLAD - 7TWT - 281 / IA68 CR-134,427	AN INVESTIGATION OF THE SUPPORT INTERFERENCE EFFECTS OF THE SSV MODEL 13P-OTS IN THE TRANSONIC AND SUPERSONIC FLOW REGIMES	LAUNCH CONFIGURATION	DETERMINE TRANSONIC AND SUPERSONIC CHARACTERISTICS OF MODEL 13P-OTS SUPPORT INTERFERENCE EFFECTS	PRESSURE FORCE	0.004 / 0.9 - 2.0	R.I. / NRLAD - 7-FOOT TRISONIC WIND TUNNEL	R.L. ROGGE / ROCKWELL INTERNATIONAL D. A. SARVER V. W. SPARKS -DMS	DMS-DR-2144 NOV., 1974

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MSFC - 14TWT - 583 / TA1F CR-134,420	AN INVESTIGATION TO DETERMINE THE STATIC STABILITY DURING RE-ENTRY OF THE 0.003-SCAL E MCR 0200 BASELI NE SPACE SHUTTLE EXTERNAL TANK MODEL	EXTERNAL TANK WIT H PROTUBERANCES EXTERNAL TANK WIT HOUT PROTUBERANCE S	OBTAIN FORCE AND MOMENT STATIC STA BILITY DATA FOR T HE EXTERNAL TANK AT RE-ENTRY CONDI TIONS	FORCE	0.003 / 1.96 - 4.96	MSFC / NC / MSFC - 14-INCH TRISON IC WIND TUNNEL	M.K. ROBERTSON / NORTHROP SERVICES INC. P.E. RAMSEY / NAS A-MSFC V. W. SPARKS V. W. SPARKS -DMS	DMS-DR-2145 OCT., 1974
LARC - 26TBT - 547 / IS4 CR-134,092	FLUTTER TESTS (IS 4) OF THE 0.0125- SCALE SHUTTLE REF LECTION PLANE MOD EL 30-OTS IN THE LANGLEY RESEARCH CENTER 26-INCH TR ANSONIC BLOWDOWN TUNNEL TEST NO. 5 47	30-OTS	TO ISOLATE THE EF FECTS OF INTERFER ING AERODYNAMICS GENERATED BY THE ORBITER, TANK, AN D SRB ON THE WING FLUTTER BOUNDARY	STRUCT-DYN	0.0125 / 0.6 - 1.45	LARC / LARC - 26-INCH TRANSO NIC BLOWDOWN T UNNEL	M.A. KOTCH /RI - R.W. HESS /LARC D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2146 APRIL, 1974
LARC - UPWT - 1057 / OA20C CR-134,097	RESULTS OF INVEST IGATIONS (OA20C) ON AN 0.015-SCALE CONFIGURATION 140A/B SPACE SHUT TLE VEHICLE ORBIT ER MODEL (49-O) I N THE NASA/LANGLEY RESE ARCH CENTER UNITA RY PLAN WIND TUNN EL	140A/B SSV ORBITE R	DEFINE ADDITIONAL LONGITUDINAL STA BILITY AND CONTRO L CHARACTERISTICS FOR THE UPDATED S SV CONFIGURATION NOT OBTAINED IN O A20A TESTS.	FORCE	0.015 / 2.5 - 4.6	LARC / LARC - UNITARY PLAN W IND TUNNEL	J.H.CAMPBELL,II/R OCKWELL INTERNATI ONAL B.SPENCER / NASA LARC M. M. MANN -DMS	DMS-DR-2147 MAY, 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 185 / IH20 CR-134,440	HYPERSONIC AEROHEATING TEST OF SPACE SHUTTLE VEHICLE CONFIGURATION 3 (MODEL 22-OTS) IN THE NASA-AMES 3.5-FOOT HYPERSONIC WIND TUNNEL(IH-20)	22-OTS	TEMPERATURE MEASUREMENTS	HEAT-TRANS	0.0175 / 5.3 - 7.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	R. B. KINGSLAND,ROCKWELL W. K. LOCKMAN,AMES B. J. FRICKEN -DMS	DMS-DR-2148 VOLUME 01 JUNE, 1975
ARC - 3.5HWT - 185 / IH20 CR-134,441	HYPERSONIC AEROHEATING TEST OF SPACE SHUTTLE VEHICLE CONFIGURATION 3 (MODEL 22-OTS) IN THE NASA-AMES 3.5-FOOT HYPERSONIC WIND TUNNEL(IH-20)	22-OTS	TEMPERATURE MEASUREMENTS	HEAT-TRANS	0.0175 / 5.3 - 7.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	R. B. KINGSLAND,ROCKWELL W. K. LOCKMAN,AMES B. J. FRICKEN -DMS	DMS-DR-2148 VOLUME 02 JUNE, 1975
LARC - CFHT - 110 / OA90 CR-141,305	RESULTS OF INVESTIGATIONS ON A 0.010-SCALE 140A/B CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 72-O IN THE NASA/LANGLEY RESEARCH CENTER CONTINUOUS FLOW HYPERSONIC TUNNEL (OA90)	CONFIG. 4 (-140A/B) MODEL 72-0	HYPERSONIC STABILITY AND CONTROL	FORCE	0.01 / 10.3 -	ROCKWELL/ LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	P.J. HAWTHORNE /ROCKWELL P.T. BERNOT /NASA-LARC J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2149 AUGUST, 1975
LARC - UPWT - 1087 / SA25F CR-141,511	AN INVESTIGATION OF HIGH MACH NUMBER STATIC STABILITY CHARACTERISTICS FOR A LARGE SCALE SOLID ROCKET BOOSTER	SRB	OBTAIN HIGH MACH NUMBER STATIC STABILITY DATA ON A LARGE SCALE SRB	FORCE	0.02112 / 2.3 - 4.63	MSFC / NSI / LARC - UNITARY PLAN WIND TUNNEL	J. JOHNSON / NASA-LARC W. F. BRADDOCK/NSI V. W. SPARKS D.B. WATSON -DMS	DMS-DR-2150 MARCH, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AERODY	THERMOCOUPLE MODE	TO OBTAIN HEAT TR	HEAT-TRANS	7.3 -	ARC /	W. H. DYE/RI	DMS-DR-2151
3.5HWT -	NAMIC HEAT TRANSF	L OF SSV ORB. 139	ANSFER DATA UNDER		7.3	ARC -	W. K. LOCKMAN/ARC	NOV., 1975
183 /	ER TESTS OF A O.		SIMULATED ENTRY			3.5-FOOT HYPER	D. A. SARVER	
OH6	0175-SCALE MODEL		CONDITIONS			SONIC WIND TUN	M. M. MOSER JR.	
CR-141,815	OF THE ROCKWELL I					NEL	-DMS	
	NTERNATIONAL SPAC							
	E SHUTTLE ORBITER							
	139 (MODEL NUMBE							
	R 22-0) IN THE NA							
	SA/AMES 3.5-FOOT							
	HYPERSONIC WIND T							
	UNNEL (TEST OH6)							
AEDC -	RESULTS OF AN INV	VEHICLE 4 ORBITER	HYPERSONIC STABIL	FORCE	.01 /	AEDC -	ED ALLEN/ ROCKWEL	DMS-DR-2152
HWTF -	ESTIGATION OF HY	(MODEL 51-0)	ITY AND CONTROL		16 -	HYPERVELOCITY	L. HUNTSVILLE OFF	REVISION 01
VA489 /	PERSONIC VISCOUS				20	WIND TUNNEL (F	ICE	JAN., 1976
0A81	INTERACTION EFFEC					)	J. E. VAUGHN	
CR-13[illegible]33	TS ON AN 0.01 SCA						J. E. VAUGHN	
	LE SPACE SHUTTLE						-DMS	
	ORBITER 51-0 MODE							
	L IN THE AEDC-VKF							
	HYPERVELOCITY WI							
	ND TUNNEL							
LARC -	INVESTIGATION OF	ORBITER ALONE	TO OBTAIN HEAT TR	HEAT-TRANS	0.0175 /	R.I. /	R.B. KINGSLAND /	DMS-DR-2153
UPWT -	THE HEAT TRANSFER	TANK ALONE	ANSFER RATE DATA		2.36 -	LARC -	ROCKWELL INTERNAT	OCT., 1977
1071 /	EFFECTS ON THE 2	SRB ALONE	ON THE ORBITER, E		3.7	UNITARY PLAN W	IONAL	
IH1	2-OTS 0.0175-		XTERNAL TANK,			IND TUNNEL	V. W. SPARKS	
CR-151,377	SCALE THIN SKIN T		AND SOLID ROCKET				M. M. MOSER JR.	
	HERMOCOUPLE MODEL		BOOSTERS				-DMS	
	(VEHICLE 3 CONFI							
	GURATION)							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - VA352 / OH4A CR-134,437	HEAT TRANSFER TESTS OF A 0.0175-SCALE SPACE SHUTTLE ORBITER MODEL (29-O) TO DETERMINE THE EFFECT OF SURFACE TEMPERATURE ON BOUNDARY LAYER TRANSITION AT MACH 8.0 IN THE AEDC VKF TUNNEL B (TEST OH4A)	MODEL 29-O	TO DETERMINE EFFECT OF WALL TEMPERATURE ON THE POINT OF BOUNDARY LAYER TRANSITION	FORCE	8 - 8	AEDC / AEDC - HYPERSONIC WIND TUNNEL (B)	M. QUAN AND J. W. FOUST/RI W. R. MARTINDALE/ ARO B. W. MYERS -DMS	DMS-DR-2154 JAN., 1975
NRLAD - LSWT - 721 / OA110 CR-134,406	STABILITY AND CONTROL CHARACTERISTICS FOR THE INNER MOLD LINE CONFIGURATION OF SPACE SHUTTLE ORBITER(OA110)	B61C11F12M51W124E40	ESTABLISH BASIC LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL FOR THE IML ORBITER	FORCE	0.0405 / 0.12 - 0.20	NRLAD / NRLAD - LOW SPEED WIND TUNNEL	TERRANCE HUGHES AND ROBERT ROGGE / RI D. E. POUCHER -DMS	DMS-DR-2155 SEPT., 1974
AEDC - HWTB - VA422 / IA17A CR-141,797	RESULTS OF AN EXTERNAL TANK SEPARATION TEST IN THE AEDC/VKF TUNNEL B ON AN 0.010 SCALE REPLICA OF THE SPACE SHUTTLE VEHICLE (MODEL 52-OT) IA17A	ORBITER WITH ET SEPARATING ISOLATED ORBITER ISOLATED ET	DETERMINE EFFECTS OF EXTERNAL TANK SEPARATING FROM ORBITER	FORCE	0.01 / 5.93 - 7.98	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	R.H. SPANGLER/ ROCKWELL J.J. DAILEDA / ROCKWELL J. E. VAUGHN J.T.DAVIET -DMS	DMS-DR-2156 VOLUME 01 AUGUST, 1975
AEDC - HWTB - VA422 / IA17A CR-141,798	RESULTS OF AN EXTERNAL TANK SEPARATING TEST IN THE AEDC/VKF TUNNEL B ON AN 0.010 SCALE REPLICA OF THE SPACE SHUTTLE VEHICLE (MODEL 52-OT) IA17A	ORBITER WITH ET SEPARATING ISOLATED ORBITER ISOLATED ET	DETERMINE EFFECTS OF EXTERNAL TANK SEPARATING FROM ORBITER	FORCE	0.01 / 5.93 - 7.98	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	R.H. SPANGLER/ ROCKWELL J.J. DAILEDA / ROCKWELL J. E. VAUGHN J.T.DAVIET -DMS	DMS-DR-2156 VOLUME 02 AUGUST, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - VA422 / IA17A CR-141,799	RESULTS OF AN EXTERNAL TANK SEPARATION TEST IN THE AEDC/VKF TUNNEL B ON AN 0.010 SCALE REPLICA OF THE SPACE SHUTTLE VEHICLE (MODEL 52-OT) IA17A	ORBITER WITH ET SEPARATING ISOLATED ORBITER ISOLATED ET	DETERMINE EFFECTS OF EXTERNAL TANK SEPARATING FROM ORBITER	FORCE	0.01 / 5.93 - 7.98	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	R.H. SPANGLER/ ROCKWELL J.J. DAILEDA / ROCKWELL J. E. VAUGHN J.T.DAVIET -DMS	DMS-DR-2156 VOLUME 03 AUGUST, 1975
LARC - HNT - 28 / IH19 CR-141,822	HEAT TRANSFER TESTS OF AN 0.006-SCALE THIN SKIN SPACE SHUTTLE MODEL (50-0, 41-T) IN THE LANGLEY RESEARCH CENTER NITROGEN TUNNEL AT MACH 19	ORBITER WITH EXTERNAL TANK ORBITER EXTERNAL TANK	ORBITER/EXTERNAL TANK ASCENT HEATING	HEAT-TRANS	19.8 - 19.8	NASA / LARC - HYPERSONIC NITROGEN TUNNEL	D.G. WALSTAD/R.I. D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2157 DEC., 1975
MSFC - 14TWT - 582 / IS6A CR-147,640	FLOW VISUALIZATION TESTS OF A 0.004-SCALE SPACE SHUTTLE VEHICLE 2A MODEL (NO. 13-OTS) IN THE MSFC 14-INCH TRISONIC WIND TUNNEL	O13, T9, S7	TO OBTAIN FLOW VISUALIZATION PHOTOS TO HELP INTERPRET IS1 AERO-NOISE DATA	STRUCT-DYN	.6 - 3.48	ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	P. J. HAWTHORNE/RI G. STREBY/NSI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2158 OCT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 66SWT - 709 / OA59 CR-134,410	AERODYNAMIC RESULTS OF SUPPORT SYSTEM EFFECTS TESTS CONDUCTED IN NASA/ARC 6-BY 6FOOT SUPERSONIC WIND TUNNEL USING A 0.015-SCALE MODEL OF THE CONFIGURATION 140A/B SSV ORBITER (OA59)	140 A/B SSV ORBITER	DETERMINE EFFECTS OF STING BASE MOUNTING WITH AND WITHOUT MPS NOZZLES	FORCE	0.015 / 0.6 - 2.0	ROCKWELL/ ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL	JOHN H. CAMPBELL, RI, AND WILLARD R. EMBURY, RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2159 VOLUME 01 OCT., 1974
ARC - 66SWT - 709 / OA59 CR-134,412	AERODYNAMIC RESULTS OF SUPPORT SYSTEM EFFECTS TESTS CONDUCTED IN NASA/ARC 6-BY-6 FOOT SUPERSONIC WIND TUNNEL USING A 0.015 -SCALE MODEL OF THE CONFIGURATION 140A/B SSV ORBITER (OA59)	140 A/B SSV ORBITER	DETERMINE EFFECTS OF STING BASE MOUNTING WITH AND WITHOUT MPS NOZZLES	FORCE	0.015 / 0.6 - 2.0	ROCKWELL/ ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL	JOHN H. CAMPBELL, RI, AND WILLARD R. EMBURY, RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2159 VOLUME 02 OCT., 1974
ARC - 3.5HWT - 191 / IA18 CR-134,413	WIND TUNNEL TESTS OF THE 0.010-SCALE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA/AMES 3.5 FOOT HYPERSONIC WIND TUNNEL (IA18)	52-OT ET ALONE	TO EVALUATE BASIC HYPERSONIC STABILITY CHAR. OF ORBITER ATTACHED RIG	FORCE	0.010 / 5.3 - 10.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	V. ESPARZA, E. CHEE/ROCKWELL INTERNATIONAL	DMS-DR-2160 MARCH, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LERC - 10SWT - 035 / SA6F CR-134,422	AERODYNAMIC CHARA CTERISTICS OF MSF C MODEL 454 OF TH E 142 INCH SOLID ROCKET BOOSTER TE STED IN THE LERC 10-FOOT SWT AT MA CH NUMBERS OF 2.0 AND 2.7 (SA6F)	SRB-BODY ALONE SRB-BODY WITH PRO TURBANCES	STATIC STABILITY AND CONTROL DURIN G TUMBLING RE-ENT RY	FORCE	0.0211 / 2.0 - 2.7	LERC / LERC - 10 BY 10-FOOT SUPERSONIC WIN D TUNNEL	DUANE RADFORD/NSI PAUL RAMSEY/NASA- MSFC J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2161 FEB., 1975
ARC - 3.5HWT - 187 / OA36 CR-134,430	RESULTS OF INVEST IGATIONS ON AN 0. 015-SCALE 140A/B CONFIGURATION OF THE ROCKWELL INTE RNATIONAL SPACE S HUTTLE ORBITER IN THE NASA/AMES RE SEARCH CENTER 3.5 -FOOT HYPERSONIC WIND TUNNEL (OA36)	140 A/B, VEHICLE 4	TO VERIFY SUPERSO NIC STABILITY AND CONTROL CHAR. OF VEHICLE 4, ANALY ZE AERODYNAMIC PR OBLEM AREAS, CONT ROL SURFACE EFFEC TIVENESS, AND REY NOLDS NUMBER EFFE CT INCLUDING SEPA RATION AND INTERF ERENCES	FORCE	0.015 / 5.3 - 10.3	ARC / ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	M. D. MILAM, R. L . GILLINS/ROCKWEL L INTERNATIONAL B. J. FRICKEN -DMS	DMS-DR-2162 NOV., 1974
LARC - UPWT - 1097 / OA208 CR-134,403	AERODYNAMIC RESUL TS OF A SUPPORT S YSTEM INTERFERENC E EFFECTS TEST CO NDUCTED AT NASA/L ARC UPWT USING AN 0.015-SCALE MODE L OF THE CONFIGUR ATION 140A/B SSV ORBITER (OA208)	140A/B	THE PRIMARY OBJEC TIVE OF THIS TEST WAS TO DETERMINE THE EXTENT AERODYNAMIC SIMUL ATION IS AFFECTED BY BASE MOUNTING AN ORBITER MODEL WITHOUT MPS NOZZL ES, ON A STRAIGHT STING.	FORCE	0.015 / 2.5 - 4.63	LARC / LARC - UNITARY PLAN W IND TUNNEL	J.H. CAMPBELL / R I W.R. EMBURY / R I M. M. MANN -DMS	DMS-DR-2163 SEPT., 1974

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN -	HEAT TRANSFER TES	MODEL 37-OT (CONF	TO DETERMINE ASCE	HEAT-TRANS	0.01 /	ROCKWELL/	ED HEUSTIS/CALSPA	DMS-DR-2164
48HST -	TS ON A 0.01-SCAL	IG. 3 ORB AND ET)	NT AND ENTRY HEAT		6.95 -	CALSPAN -	N CORP.	VOLUME 01
173-100 /	E ROCKWELL CONFIG	CONFIGURATION 3 O	TRANSFER RATES O		19.5	48-INCH HYPERS	M. KOTCH/ R. I.	JAN., 1976
OH12	URATION 3 SPACE S	RBITER	VER A RANGE OF MA			ONIC SHOCK TUN	D. A. SARVER	
IH21	HUTTLE ORBITER AN	EXTERNAL TANK	CH NO. AND REYNOL			NEL	W. B. MEINDERS	
CR-141,828	D TANK (37-OT)IN		DS NO. OF PARTICU				-DMS	
	THE CALSPAN 48-IN		LAR INTEREST WAS					
	CH HYPERSONIC SH		ORBITER WING LEAD					
	OCK TUNNEL (OH12/		ING EDGE HEATING					
	IH21)		DURING ENTRY					
CALSPAN -	HEAT TRANSFER TES	MODEL 37-OT (CONF	TO DETERMINE ASCE	HEAT-TRANS	6.95 -	ROCKWELL/	ED HEUSTIS/CALSPA	DMS-DR-2164
48HST -	TS ON A 0.01-SCAL	IG. 3 ORB AND ET)	NT AND ENTRY HEAT		19.5	CALSPAN -	N CORP.	VOLUME 02
I73-100 /	E ROCKWELL CONFIG	CONFIGURATION 3 O	TRANSFER RATES O			48-INCH HYPERS	M. KOTCH/ R. I.	JAN., 1976
OH12	URATION 3 SPACE S	RBITER	VER A RANGE OF MA			ONIC SHOCK TUN	W. B. MEINDERS	
IH21	HUTTLE ORBITER AN	EXTERNAL TANK	CH NO. AND REYNOL			NEL	-DMS	
CR-141,829	D TANK (37-OT)IN		DS NO. OF PARTICU					
	THE CALSPAN 48-IN		LAR INTEREST WAS					
	CH HYPERSONIC SH		ORBITER WING LEAD					
	OCK TUNNEL (OH12/		ING EDGE HEATING					
	IH21)		DURING ENTRY					
CALSPAN -	HEAT TRANSFER TES	MODEL 37-OT (CONF	TO DETERMINE ASCE	HEAT-TRANS	0.01 /	ROCKWELL/	ED HEUSTIS/CALSPA	DMS-DR-2164
48HST -	TS ON A 0.01-SCAL	IG. 3 ORB AND ET)	NT AND ENTRY HEAT		6.95 -	CALSPAN -	N CORP.	VOLUME 03
173-100 /	E ROCKWELL CONFIG	CONFIGURATION 3 O	TRANSFER RATES O		19.5	48-INCH HYPERS	M. KOTCH/ R. I.	DEC., 1975
OH12	URATION 3 SPACE S	RBITER	VER A RANGE OF MA			ONIC SHOCK TUN	D. A. SARVER	
IH21	HUTTLE ORBITER AN	EXTERNAL TANK	CH NO. AND REYNOL			NEL	W. B. MEINDERS	
CR-141,830	D TANK (37-OT)IN		DS NO. OF PARTICU				-DMS	
	THE CALSPAN 48-IN		LAR INTEREST WAS					
	CH HYPERSONIC SH		ORBITER WING LEAD					
	OCK TUNNEL (OH12/		ING EDGE HEATING					
	IH21)		DURING ENTRY					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 596 / TA2F CR-141,823	RESULTS OF AN INVESTIGATION OF AN 0.003-SCALE SPACE SHUTTLE EXTERNAL TANK (MSFC MODEL 460) IN THE NASA/MSFC 14 X 14-INCH TRISONIC WIND TUNNEL TO DETERMINE STATIC PRESSURE DISTRIBUTIONS DURING REENTRY (TA2F)	EXTERNAL TANK WITH AND WITHOUT PROTUBERANCES, 0.003 SCALE	DETERMINE STATIC PRESSURE DISTRIBUTIONS ON MODIFIED MCR 0200 EXTERNAL TANK	PRESSURE	0.003 / 1.96 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P.E. RAMSEY / MSFC G.W. WINKLER / NSI V. W. SPARKS D. E. POUCHER -DMS	DMS-DR-2165 VOLUME 01 DEC., 1975
MSFC - 14TWT - 596 / TA2F CR-141,824	RESULTS OF AN INVESTIGATION OF AN 0.003-SCALE SPACE SHUTTLE EXTERNAL TANK (MSFC MODEL 460) IN THE NASA/MSFC 14 X 14-INCH TRISONIC WIND TUNNEL TO DETERMINE STATIC PRESSURE DISTRIBUTIONS DURING REENTRY (TA2F)	EXTERNAL TANK WITH AND WITHOUT PROTUBERANCES, 0.003 SCALE	DETERMINE STATIC PRESSURE DISTRIBUTIONS ON MODIFIED MCR 0200 EXTERNAL TANK	PRESSURE	0.003 / 1.96 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P.E. RAMSEY / MSFC G.W. WINKLER / NSI V. W. SPARKS D. E. POUCHER -DMS	DMS-DR-2165 VOLUME 02 DEC., 1975

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MSFC - 14TWT - 596 / TA2F CR-141,825	RESULTS OF AN INV ESTIGATION OF AN 0.003-SCALE SPACE SHUTTLE EXTERNAL TANK (MSFC MODEL 460) IN THE NASA/ MSFC 14 X 14-INCH TRISONIC WIND TU NNEL TO DETERMINE STATIC PRESSURE DISTRIBUTIONS DU RING REENTRY (TA2 F)	EXTERNAL TANK WIT H AND WITHOUT PRO TUBERANCES,0.003 SCALE	DETERMINE STATIC PRESSURE DISTRIBU TIONS ON MODIFIED MCR 0200 EXTERNAL TANK	PRESSURE	0.003 / 1.96 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P.E. RAMSEY / MSF C G.W. WINKLER / NS I V. W. SPARKS D. E. POUCHER -DMS	DMS-DR-2165 VOLUME 03 DEC., 1975
MSFC - 14TWT - 596 / TA2F CR-141,826	RESULTS OF AN INV ESTIGATION OF AN 0.003-SCALE SPACE SHUTTLE EXTERNAL TANK (MSFC MODEL 460) IN THE NASA/ MSFC 14 X 14-INCH TRISONIC WIND TU NNEL TO DETERMINE STATIC PRESSURE DISTRIBUTIONS DU RING REENTRY (TA2 F)	EXTERNAL TANK WIT H AND WITHOUT PRO TUBERANCES,0.003 SCALE	DETERMINE STATIC PRESSURE DISTRIBU TIONS ON MODIFIED MCR 0200 EXTERNAL TANK	PRESSURE	0.003 / 1.96 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P.E. RAMSEY / MSF C G.W. WINKLER / NS I V. W. SPARKS D. E. POUCHER -DMS	DMS-DR-2165 VOLUME 04 JAN., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC -	RESULTS OF AN INV	EXTERNAL TANK WIT	DETERMINE STATIC	PRESSURE	0.003 /	MSFC /	P.E. RAMSEY / MSF	DMS-DR-2165
14TWT -	ESTIGATION OF AN	H AND WITHOUT PRO	PRESSURE DISTRIBU		1.96 -	MSFC -	C	VOLUME 05
596 /	0.003-SCALE SPACE	TUBERANCES,0.003	TIONS ON MODIFIED		4.96	14-INCH TRISON	G.W. WINKLER / NS	DEC., 1975
TA2F	SHUTTLE EXTERNAL	SCALE	MCR 0200			IC WIND TUNNEL	I	
CR-141,827	TANK (MSFC MODEL		EXTERNAL TANK				V. W. SPARKS	
	460) IN THE NASA/						D. E. POUCHER	
	MSFC 14 X 14-INCH						-DMS	
	TRISONIC WIND TU							
	NNEL TO DETERMINE							
	STATIC PRESSURE							
	DISTRIBUTIONS DU							
	RING REENTRY (TA2							
	F)							
LARC -	HEAT TRANSFER TES	ORB.+ET+SRB	TO INVESTIGATE FA	HEAT-TRANS	3.7 -	RI /	D.G. WALSTAD/RI	DMS-DR-2166
UPWT -	TS OF AN 0.006 SC	ET	RAMETRICALLY THE		3.7	LARC -	R.L. STALLINGS/LA	JULY, 1975
1041 /	ALE THIN-SKIN SPA	SRB	ASCENT HEATING OF			UNITARY PLAN W	RC	
IH16	CE SHUTTLE THERMO	ORB	THE INTEGRATED			IND TUNNEL	J.T.DAVIET	
CR-141,534	COUPLE MODEL (41-		VEHICLE				-DMS	
	OTS) IN THE LANGL							
	EY RESEARCH CENTE							
	R UNITARY PLAN WI							
	ND TUNNEL AT M=3.							
	7 (IH16)							
ARC -	RESULTS OF AN INV	140A/B	OBTAIN INCREMENTA	FORCE	0.015 /	ROCKWELL/	M. D. MILAM AND R	DMS-DR-2167
3.5HWT -	ESTIGATION ON AN		L DATA ON THE EFF		5.3 -	ARC -	. L. GILLINS/ROCK	AUGUST, 1975
190 /	0.015-SCALE MODEL		ECTS OF A STING M		10.3	3.5-FOOT HYPER	WELL INTERNATIONA	
0A98	(49-0) OF THE ROC		OUNT ON BASE PRES			SONIC WIND TUN	L	
CR-141,550	KWELL INTERNATION		SURES AND FORCE A			NEL	J. CLEARY/NASA AM	
	AL SPACE SHUTTLE		ND MOMENT DATA WI				ES	
	ORBITER IN THE NA		TH VARIOUS SURFAC				D. A. SARVER	
	SA AMES RESEARCH		E DEFLECTIONS				G. G. MCDONALD	
	CENTER 3.5-FOOT H						-DMS	
	YPERSONIC WIND TU							
	NNEL (0A98)							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CFHT - 97 / LA32 TM-X 71945	HEAT TRANSFER TO SURFACE AND GAPS OF RSI TILE ARRAYS IN TURBULENT FLOW AT MACH 10.3	THERMAL PROTECTION SYSTEM	TO BETTER DEFINE THE HEATING WHICH THE TILE SURFACE AND GAP WALLS WILL EXPERIENCE; TILES ARE PART OF TPS	HEAT-TRANS	1.0 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	DAVID A. THROCKMORTON/LARC M. M. MOSER JR. -DMS	DMS-DR-2168 MAY, 1974
ARC - 11TWT - 019 / IA81A CR-141,836	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A) VOLUME 1 OF 7	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.6 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D. A. SARVER M. M. MANN -DMS	DMS-DR-2169 VOLUME 01 JAN., 1976
ARC - 11TWT - 019 / IA81A CR-141,837	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A) VOLUME 2 OF 7	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.6 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D. A. SARVER M. M. MANN -DMS	DMS-DR-2169 VOLUME 02 JAN., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF A PRES	LAUNCH VEHICLE 5	TO OBTAIN PRESSUR	PRESSURE	0.03 /	ARC /	T. J. DZIUBALA, E	DMS-DR-2169
11TWT -	SURE LOADS INVEST		E DISTRIBUTIONS,	FORCE	0.6 -	ARC -	. CHEE, M. D. MIL	VOLUME 03
019 /	IGATION ON A 0.03		FORCE DATA, AND H		2.5	11-FOOT TRANSO	AM/RI	JAN., 1976
IA81A	O-SCALE MODEL (47		INGE MOMENTS			NIC WIND TUNNE	D. A. SARVER	
CR-141,838	-OTS) OF THE INTE		ON THE INTEGRATED			L (UNITARY)	M. M. MANN	
	GRATED SPACE SHUT		LAUNCH VEHICLE				-DMS	
	TLE VEHICLE CONFI							
	GURATION 5 IN THE							
	NASA AMES RESEARC							
	H CENTER 11 X 11							
	FOOT LEG OF THE U							
	NITARY PLAN WIND							
	TUNNEL (IA81A) VO							
	LUME 3 OF 7							
ARC -	RESULTS OF A PRES	LAUNCH VEHICLE 5	TO OBTAIN PRESSUR	PRESSURE	0.03 /	ARC /	T. J. DZIUBALA, E	DMS-DR-2169
11TWT -	SURE LOADS INVEST		E DISTRIBUTIONS,	FORCE	0.6 -	ARC -	. CHEE, M. D. MIL	VOLUME 04
019 /	IGATION ON A 0.03		FORCE DATA, AND H		2.5	11-FOOT TRANSO	AM/RI	JAN., 1976
IA81A	O-SCALE MODEL (47		INGE MOMENTS			NIC WIND TUNNE	D. A. SARVER	
CR-141,839	-OTS) OF THE INTE		ON THE INTEGRATED			L (UNITARY)	M. M. MANN	
	GRATED SPACE SHUT		LAUNCH VEHICLE				-DMS	
	TLE VEHICLE CONFI							
	GURATION 5 IN THE							
	NASA AMES RESEARC							
	H CENTER 11 X 11							
	FOOT LEG OF THE U							
	NITARY PLAN WIND							
	TUNNEL (IA81A) VO							
	LUME 4 OF 7							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 019 / IA81A CR-141,840	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.03-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A) VOLUME 5 OF 7	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.6 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D. A. SARVER M. M. MANN - DMS	DMS-DR-2169 VOLUME 05 JAN., 1976
ARC - 11TWT - 019 / IA81A CR-141,841	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.03-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A) VOLUME 6 OF 7	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.6 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D. A. SARVER M. M. MANN - DMS	DMS-DR-2169 VOLUME 06 JAN., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 019 / IA81A CR-141,842	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A) VOLUME 7 OF 7	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.6 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D. A. SARVER M. M. MANN -DMS	DMS-DR-2169 VOLUME 07 JAN., 1976
ARC - 11TWT - 014 / IA19 CR-141,543	RESULTS OF A JET PLUME EFFECTS TEST ON THE ROCKWELL INTERNATIONAL INTEGRATED SPACE SHUTTLE VEHICLE USING A VEHICLE 5 CONFIGURATION 0.02-SCALE MODEL (88-OTS) IN THE 11 X 11 FOOT LEG OF THE NASA/AMES RESEARCH CENTER UNITARY PLAN WIND TUNNEL (IA19)	LAUNCH VEHICLE 5	TO OBTAIN ELEVON HINGE MOMENTS AND INCREMENTAL EFFECTS OF JET PLUMES ON PRESSURE DISTRIBUTIONS	FORCE PRESSURE	0.02 / 0.9 - 1.40	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	S.L.TREON/AMES RESEARCH CENTER M.E. NICHOLS/ R. I. D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2170 VOLUME 01 JUNE, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 014 / IA19 CR-141,544	RESULTS OF A JET PLUME EFFECTS TES T ON THE ROCKWELL INTERNATIONAL IN TEGRATED SPACE SH UTTLE VEHICLE USI NG A VEHICLE 5 CO NFIGURATION 0.02- SCALE MODEL (88-O TS) IN THE 11 X 1 1 FOOT LEG OF THE NASA/AMES RESEAR CH CENTER UNITARY PLAN WIND TUNNEL (IA19)	LAUNCH VEHICLE 5	TO OBTAIN ELEVON HINGE MOMENTS AND INCREMENTAL EFFE CTS OF JET PLUMES ON PRESSUR DIST RIBUTIONS	FORCE PRESSURE	0.02 / 0.9 - 1.40	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	S.L. TREON/AMES R ESEARCH CENTER M.E. NICHOLS/ R. I. D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2170 VOLUME 02 JUNE, 1975
ARC - 11TWT - 014 / IA19 CR-141,545	RESULTS OF A JET PLUME EFFECTS TES T ON THE ROCKWELL INTERNATIONAL IN TEGRATED SPACE SH UTTLE VEHICLE USI NG A VEHICLE 5 CO NFIGURATION 0.02- SCALE MODEL (88-O TS) IN THE 11 X 1 1 FOOT LEG OF THE NASA/AMES RESEAR CH CENTER UNITARY PLAN WIND TUNNEL (IA19)	LAUNCH VEHICLE 5	TO OBTAIN ELEVON HINGE MOMENTS AND INCREMENTAL EFFE CTS OF JET PLUMES ON PRESSURE DIST RIBUTIONS	FORCE PRESSURE	0.02 / 0.9 - 1.40	ARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	S.L. TREON/AMES R ESEARCH CENTER M.E. NICHOLS/R. I . D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2170 VOLUME 03 JUNE, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 198 / OH38 CR-144,584	RESULTS OF PRESSURE DISTRIBUTION TESTS OF A 0.010-SCALE SPACE SHUTTLE ORBITER MODEL (61-0) IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (OH38)	140C ORBITER	OBTAIN PRESSURE DISTRIBUTIONS AT HIGH HEATING LOCATIONS FOR HIGH ANGLES OF ATTACK AT MACH NUMBERS 7 AND 10	PRESSURE	0.01 / 7.4 - 10.4	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE/RI JOE MARVIN/ARC D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2171 VOLUME 01 JAN., 1976
ARC - 3.5HWT - 198 / OH38 CR-144,585	RESULTS OF PRESSURE DISTRIBUTION TESTS OF A 0.010-SCALE SPACE SHUTTLE ORBITER MODEL (61-0) IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (OH38)	140C ORBITER	OBTAIN PRESSURE DISTRIBUTIONS AT HIGH HEATING LOCATIONS FOR HIGH ANGLES OF ATTACK AT MACH NUMBERS 7 AND 10	PRESSURE	0.01 / 7.4 - 10.4	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE/RI JOE MARVIN/ARC D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2171 VOLUME 02 JAN., 1976
ARC - 3.5HWT - 198 / OH38 CR-144,586	RESULTS OF PRESSURE DISTRIBUTION TESTS OF A 0.010-SCALE SPACE SHUTTLE ORBITER MODEL (61-0) IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (OH38)	140C ORBITER	OBTAIN PRESSURE DISTRIBUTIONS AT HIGH HEATING LOCATIONS FOR HIGH ANGLES OF ATTACK AT MACH NUMBERS 7 AND 10	PRESSURE	0.01 / 7.4 - 10.4	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE/RI JOE MARVIN/ARC D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2171 VOLUME 03 JAN., 1976
LARC - 60VS - R3289 / OA99 CR-134,415	RESULTS OF REACTION CONTROL SYSTEM ON-ORBIT JET USING AN 0.0175-SCALE CONFIGURATION 3 SPACE SHUTTLE ORBITER MODEL (21-0) IN THE LARC 60-FOOT VACUUM SPHERE	SSV ORBITER CONF. 2 (MODEL 21-0 OF VL70-000139)	TO DETERMINE RCS DIRECT IMPINGEMENT EFFECTS ON SSV DURING ON-ORBIT	HEAT-TRANS	0.0175 / 3.4 -	RI / LARC - 60-FOOT VACUUM SPHERE VON KARMAN FACILITIES	IRA E. TILLEY III/LARC JOHN MARROQUIN/RI D. A. SARVER -DMS	DMS-DR-2172 OCT., 1974

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 14-TWT - 711 / IA8 CR-134,107	AERODYNAMIC RESULTS OF AN ABORT SEPARATION EFFECTS TEST (IA8) CONDUCTED IN THE NASA/LARC 14-FOOT TRANSONIC WIND TUNNEL ON A MODEL (6-OTS) OF THE ROCKWELL INTERNATIONAL LAUNCH CONFIGURATION INTEGRATED VEHICLE	6-OTS	EXPERIMENTAL AERODYNAMIC INVESTIGATIONS	FORCE	0.015 / 0.32 - 1.1	LARC / ARC - 14-FOOT TRANSONIC WIND TUNNEL	J.H. CAMPBELL,II/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2173 JULY, 1974
MSFC - 14TWT - 594 / IA33 CR-141,811	AN INVESTIGATION IN THE MSFC 14-INCH TWT TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE VEHICLE 5 CONFIGURATION (IA33)	VEHICLE 5 CONFIGURATION	TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE SHUTTLE VEHICLE 5 CONFIGURATION; TO DETERMINE THE EFFECT ON THE VEHICLE 5 AERODYNAMIC CHARACTERISTICS OF ET AND SRB NOSE SHAPE, SRB NOZZLE SHROUD FLARE ANGLE, ORBITER TO TANK FAIRING, AND STING LOCATION	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/RI V. W. SPARKS R. B. LOWE -DMS	DMS-DR-2174 VOLUME 01 NOV., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 594 / IA33 CR-141,812	AN INVESTIGATION IN THE MSFC 14-INCH TWT TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE VEHICLE 5 CONFIGURATION (IA33)	VEHICLE 5 CONFIGURATION	TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE SHUTTLE VEHICLE 5 CONFIGURATION: TO DETERMINE THE EFFECT ON THE VEHICLE 5 AERODYNAMIC CHARACTERISTICS OF THE ET AND SRB NOSE SHAPE, SRB NOZZLE SHROUD FLARE ANGLE, ORBITER TO TANK FAIRING, AND STING LOCATION	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/RI V. W. SPARKS R. B. LOWE-DMS	DMS-DR-2174 VOLUME 02 NOV., 1975
MSFC - 14TWT - 594 / IA33 CR-141,813	AN INVESTIGATION IN THE MSFC 14-INCH TWT TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE VEHICLE 5 CONFIGURATION (IA33)	VEHICLE 5 CONFIGURATION	TO DETERMINE THE STATIC STABILITY CHARACTERISTICS OF THE SPACE SHUTTLE VEHICLE 5 CONFIGURATION; TO DETERMINE THE EFFECT ON THE VEHICLE 5 AERODYNAMIC CHARACTERISTICS OF THE ET AND SRB NOSE SHAPE, SRB NOZZLE SHROUD FLARE ANGLE, ORBITER TO TANK FAIRING, AND STING LOCATION	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/RI V. W. SPARKS R. B. LOWE-DMS	DMS-DR-2174 VOLUME 03 NOV., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD -	SUBSONIC AND TRAN	MODEL 49-O + 67TS	OBTAIN ORBITER WI	FORCE	0.015 /	NRLAD /	M.T. HUGHES,R.C.	DMS-DR-2175
7TWT -	SONIC HINGE MOMEN	INTEGRATED VEHIC	NG BENDING LOADS	PRESSURE	0.90 -	NRLAD -	MENNELL / R.I.	VOLUME 01
282 /	T AND WING BENDIN	LE	AND TO DEFINE ELE		1.50	7-FOOT TRISONI	D. E. POUCHER	DEC., 1974
IA70	G/TORSION		VON AND BODY FLAP			C WIND TUNNEL	-DMS	
CR-134,431	CHARACTERISTICS F		HINGE MOMENTS WHI					
	OR THE -140A/B IN		LE IN THE SSV INT					
	TEGRATED SPACE SH		EGRATED CONFIGURA					
	UTTLE VEHICLE		TION					
	(IA70) VOLUME 1 O							
	F 3							
NRLAD -	SUBSONIC AND TRAN	MODEL 49-O + 67TS	OBTAIN ORBITER WI	FORCE	0.015 /	NRLAD /	M.T. HUGHES,R.C.	DMS-DR-2175
7TWT -	SONIC HINGE MOMEN	INTEGRATED VEHIC	NG BENDING LOADS	PRESSURE	0.90 -	NRLAD	MENNELL /R.I.	VOLUME 02
282 /	T AND WING BENDIN	LE	AND TO DEFINE ELE		1.50	7-FOOT TRISONI	D. E. POUCHER	DEC., 1974
IA70	G/TORSION		VON AND BODY FLAP			C WIND TUNNEL	-DMS	
CR-134,432	CHARACTERISTICS F		HINGE MOMENTS WHI					
	OR THE -140A/B IN		LE IN THE SSV INT					
	TEGRATED SPACE SH		EGRATED CONFIGURA					
	UTTLE VEHICLE		TION					
	(IA70) VOLUME 2 O							
	F 3							
NRLAD -	SUBSONIC AND TRAN	MODEL 49-O + 67TS	OBTAIN ORBITER WI	FORCE	0.015 /	NRLAD /	M.T. HUGHES,R.C.	DMS-DR-2175
7TWT -	SONIC HINGE MOMEN	INTEGRATED VEHIC	NG BENDING LOADS	PRESSURE	0.90 -	NRLAD -	MENNELL /R.I.	VOLUME 03
282 /	T AND WING BENDIN	LE	AND TO DEFINE ELE		1.50	7-FOOT TRISONI	D. E. POUCHER	DEC., 1974
IA70	G/TORSION		VON AND BODY FLAP			C WIND TUNNEL	-DMS	
CR-134,433	CHARACTERISTICS F		HINGE MOMENTS WHI					
	OR THE -140A/B IN		LE IN THE SSV INT					
	TEGRATED SPACE SH		EGRATED CONFIGURA					
	UTTLE VEHICLE		TION					
	(IA70) VOLUME 3 O							
	F 3							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 22HT - 426 / LA40 TM-X 72661	SPACE SHUTTLE ORBITER TRIMMED CENTER OF GRAVITY EXTENSION STUDY VOLUME IV - EFFECTS OF CONFIGURATION MODIFICATIONS ON THE AERODYNAMICS OF THE 139B ORBITER AT MACH 20.3	139B ORBITER	DETERMINE THE EFFECT OF SEVERAL FOREBODY, WING-FILLET, AND CANARD MODIFICATIONS ON THE ORBITER LONGITUDINAL CENTER OF PRESSURE LOCATIONS	FORCE	19.0- 21.6	LARC / LARC - 22-INCH HELIUM TUNNEL	W. I. SCALLION/ NASA LARC G. G. MCDONALD -DMS	DMS-DR-2176 MAY, 1978
ARC - 3.5HWT - 194 / OA83 CR-141,510	RESULTS OF INVESTIGATIONS ON AN 0.015-SCALE CONFIGURATION 140A/B SPACE SHUTTLE VEHICLE ORBITER REACTION CONTROL SYSTEM PLUME-IMPINGEMENT MODEL 36-O IN THE NASA/AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (OA83)	140A/B SSV ORBITER	TO INVESTIGATE INCREMENTAL SURFACE PRESSURE EFFECTS OF RCS PITCH ENGINE OPERATION	FORCE PRESSURE	0.015 / 5.3 - 10.3	RI / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. E. NICHOLS/RI T. E. POLEK/ARC R. B. LOWE -DMS	DMS-DR-2177 MARCH, 1975
ARC - 97SWT - 747 / OA53B CR-134,119	INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE CONFIGURATION 140A/B ORBITER MODEL IN THE AMES RESEARCH CENTER 9-BY 7-FOOT SUPER-SONIC WIND TUNNEL (OA53B)	140A/B	THE PRIMARY TEST OBJECTIVES ARE TO OBTAIN CONFIGURATION 140A/B STABILITY AND CONTROL CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS, CONTROL SURFACE HINGE MOMENTS, AND VERTICAL TAIL PANEL LOADS.	FORCE	0.03 / 1.6 - 2.0	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	MARK E. NICHOLS / RI M. M. MANN -DMS	DMS-DR-2178 AUGUST, 1974

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 705 / 97SWT - OS8A/B CR-151,378	RESULTS OF AN INVESTIGATION OF THE ACOUSTIC AND VIBRATIONAL ENVIRONMENT OF A FULL SCALE SPACE SHUTTLE ORBITER STRUCTURAL TEST PANEL WITH SIMULATED TPS IN THE AMES UNITARY PLAN WIND TUNNEL (MODEL 81-0,TEST OS8A AND B)	SS ORBITER LOWER WING CARRY-THROUGH STRUCTURE WITH A DUMMY PANEL , A RIGID PANEL, OR AN ELASTIC PANEL	TO INVESTIGATE TPS TILE SENSITIVITY TO EXTREME PRESSURE GRADIENTS AND VIBRATION AND TO DEFINE THE TPS AERODYNAMIC ENVIROMENT	STRUCT-DYN	1.0 / 0.60 - 2.5	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. B. KINGSLAND/RI R. B. LOWE -DMS	DMS-DR-2179 NOV., 1977
ARC - 3.5HWT - 195 / IH28 CR-147,615	HEAT TRANSFER TEST OF AN 0.006-SCALE THIN-SKIN THERMOCOUPLE SPACE SHUTTLE MODEL (50-0,41T) IN THE NASA-AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL AT MACH 5.3 (IH-28)	SSV ORBITER (MODEL(50-0) SSV EXT. TANK (MODEL 41-T)	OBTAIN AERODYNAMIC HEATING DATA UNDER SIMULATED RETURN-TO-LAUNCH-SITE ABORT CONDITIONS	HEAT-TRANS	5.22- 5.30	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J. W. CUMMINGS, T. F. FOSTER/RI W. K. LOCKMAN/ARC D. A. SARVER R. B. LOWE -DMS	DMS-DR-2180 VOLUME 01 SEPT., 1976
ARC - 3.5HWT - 195 / IH28 CR-147,616	HEAT TRANSFER TEST OF AN 0.006-SCALE THIN-SKIN THERMOCOUPLE SPACE SHUTTLE MODEL (50-0,41T) IN THE NASA-AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL AT MACH 5.3 (IH-28)	SSV ORBITER (MODEL(50-0) SSV EXT. TANK (MODEL 41-T)	OBTAIN AERODYNAMIC HEATING DATA UNDER SIMULATED RETURN-TO-LAUNCH-SITE ABORT CONDITIONS	HEAT-TRANS	5.22- 5.30	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J. W. CUMMINGS, T. F. FOSTER/RI W. K. LOCKMAN/ARC D. A. SARVER R. B. LOWE -DMS	DMS-DR-2180 VOLUME 02 SEPT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 196 / TA9F CR-134,425	A HYPERSONIC FORCE AND MOMENT TEST OF A 0.006 SCALE MODEL OF THE 330.2 INCH DIAMETER EXTERNAL TANK IN THE AMES RESEARCH CENTER 3.5 FT. HYPERSONIC WIND TUNNEL (TA9F)	EXTERNAL TANK	TO INVESTIGATE THE EFFECTS OF PROTUBERANCES AND REYNOLDS NUMBER ON THE FORCE AND MOMENT COEFFICIENTS	FORCE	0.006 / 5.3 - 10.4	MSFC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	PAUL RAMSEY/NASA TOMMY DAVIS/ NSI J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2181 NOV., 1974
LARC - UPWT - 1101 / LA49 CR-151,062	SUPERSONIC CONTROL EFFECTIVENESS FOR FULL AND PARTIAL SPAN ELEVON CONFIGURATIONS ON A 0.0165 SCALE MODEL SPACE SHUTTLE ORBITER TESTED IN THE LARC UNITARY PLAN WIND TUNNEL	089B/139		FORCE	.0165 / 2.5 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	BERNARD SPENCER, JR./LARC J. E. VAUGHN -DMS	DMS-DR-2182 APRIL, 1977
LARC - 8TPT - 684 / LA51 TM-X 72661	SPACE SHUTTLE ORBITER TRIMMED CENTER-OF-GRAVITY EXTENSION STUDY: VOLUME II-EFFECTS OF CONFIGURATION MODIFICATIONS ON THE AERODYNAMIC CHARACTERISTICS OF THE 140A/B ORBITER AT TRANSONIC SPEEDS	140A/B	TO DETERMINE EFFECTS OF FUSELAGE NOSE AND WING FILLET MODS ON TRANSONIC AERO. CHARACTERISTICS OF A SSV CONFIG.	FORCE	0.01 / .35 - 1.20	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	W. P. PHILLIPS J. W. BALL D.B. WATSON -DMS	DMS-DR-2183 FEB., 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 680 / LA48 CR-151,061	TRANSONIC CONTROL EFFECTIVENESS FOR FULL AND PARTIAL SPAN ELEVON CONFIGURATIONS ON A 0.0165 SCALE MODEL SPACE SHUTTLE ORBITER TESTED IN THE LARC 8-FOOT TRANSONIC PRESSURE TUNNEL	089B/140	TO DETERMINE LONGITUDINAL/LATERAL CONTROL EFFECTIVENESS ON COMBINATIONS OF INBOARD, OUTBOARD, FULL SPAN WING TRAILING EDGE CONTROLS	FORCE	0.0165 / .60 - 1.08	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	BERNARD SPENCER, JR./LARC J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2184 APRIL, 1977
ARC - 87SWT - 747 / OA53C CR-134,120	INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE CONFIGURATION 140A/B ORBITER MODEL IN THE AMES RESEARCH CENTER UNITARY PLAN 8-BY 7-FOOT SUPERSONIC WIND TUNNEL	140A/B	THE PRIMARY TEST OBJECTIVES ARE TO OBTAIN CONFIGURATION 140A/B STABILITY AND CONTROL CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS, CONTROL SURFACE HINGE MOMENTS, AND VERTICAL TAIL PANEL LOADS.	FORCE	0.03 / 2.5 - 3.5	ARC / ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	MARK E. NICHOLS / RI M. M. MANN -DMS	DMS-DR-2185 SEPT., 1974
LARC - 8TPT - 686 / OA116 CR-134,428	RESULTS OF DIFFERENTIAL ELEVON/AILERON DEFLECTION FOR LATERAL CONTROL OPTIMIZATION AND ELEVON HINGE MOMENT INVESTIGATIONS ON AN 0.015-SCALE MODEL(49-0) OF THE SPACE SHUTTLE ORBITER IN THE NASA/LANGLEY RESEARCH CENTER 8-FOOT TRANSONIC PRESSURE TUNNEL	.015-SCALE ORBITER MODEL, CONFIGURATION 140A/B (49-0)	DETERMINE TRANSONIC DIFFERENTIAL ELEVON/AILERON LATERAL CONTROL OPTIMIZATION, TRANSONIC ELEVON HINGE MOMENTS, TRANSONIC EFFECTS OF NEW BASELINE 6-INCH ELEVON/ELEVON AND ELEVON/FUSELAGE GAPS, AND TRANSONIC EFFECTS OF THE NEW SHORT(VL70-008410) OMS PODS	FORCE	0.015 / 0.35 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	A.I. LINDSEY, M.D. MILAM/RI R. H. LINDAHL -DMS	DMS-DR-2186 JAN., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 726 / OA119A CR-134,421	EFFECTS OF WING/E LEVON GAP SEALING FLAPPER DOORS ON ORBITER ELEVON E FFECTIVENESS (OA1 19A)	140A/B SPACE SHUT TLE ORBITER INNER MOLD LINE CONFIG URATION, (MODEL 1 6-0)	TO DEFINE ORBITER ELEVON EFFECTIVE NESS WITH THE NEW 6 INCH ELEVON GA PS SEALING FLAPPE R DOORS	FORCE	0.0405 / 0.26 - 0.26	RI / NRLAD - LOW SPEED WIND TUNNEL	R. C. MENNELL /RI R. B. LOWE -DMS	DMS-DR-2187 NOV., 1974
LARC - UPWT - 1075 / LA39				FORCE		LARC / LARC - UNITARY PLAN W IND TUNNEL	D.B. WATSON -DMS	DMS-DR-2188 TG LRC
ARC - 97SWT - 052 / IA110 CR-141,506	RESULTS OF INVEST IGATION IA110 ON A 0.015-SCALE INT EGRATED CONFIGURA TION OF THE SPACE SHUTTLE VEHICLE IN THE ARC 9X7 SU PERSONIC WIND TUNNEL USING MODE LS 67-TS AND 49-O	ORBITER 140A/B	TO INVESTIGATE OR BITER WING BENDIN G, ELEVON PANEL L OADS, AND ELEVON EFFECTIVENESS	FORCE	1.5 - 2.5	ARC / ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	E. CHEE/ROCKWELL M. M. MANN -DMS	DMS-DR-2189 MARCH, 1975
MSFC - 14TWT - 599 / OA108 CR-141,537	INVESTIGATION IN THE MSFC TWT TO V ERIFY THE STATIC STABILITY AND CON TROL EFFECTIVENES S OF THE 0.004-SC ALE MODEL (74-O) OF THE SHUTTLE 5 ORBITER (OA-108)	0.004-SCALE ORBIT ER FORCE MODEL (7 4-O)	TO VERIFY STABILI TY AND CONTROL CH ARACTERISTICS	FORCE	0.004 / 0.6 - 4.96	NASA / MSFC - 14-INCH TRISON IC WIND TUNNEL	E. C. ALLEN / RI R. H. LINDAHL -DMS	DMS-DR-2190 JUNE, 1975

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LARC - CFHT - 104 / LA47 TM-X 72661	SPACE SHUTTLE ORBITER TRIMMED CENTER OF GRAVITY EXTENSION STUDY: VOLUME 1--EFFECTS OF CONFIGURATIONS ON THE AERODYNAMIC CHARACTERISTICS OF THE 140 A/B ORBITER AT MACH 10.3	140A/B	C. G. EXTENSION STUDY AT MACH 10	FORCE	0.01 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	P. T. BERNOT/NASA/LARC J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2191 JULY, 1975
AEDC - SWTA - 60A / IA87 CR-141,541	AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST (IA87) ON A 0.01-SCALE MODEL (52-OTS) OF THE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUPERSONIC WIND TUNNEL A	O/ET; O/ET,SRB; SRB	STATIC FORCE TEST OF SRB SEPARATION EFFECTS FOR A RANGE OF SSV ATTITUDES	FORCE	0.010 / 4.52 - 4.52	RI / AEDC - SUPERSONIC WIND TUNNEL (A)	J.H. CAMPBELL, CARL KNUDSEN, PAUL PEARSON/R.I. ROBERT BURT/ARO D. A. SARVER D.B. WATSON -DMS	DMS-DR-2192 VOLUME 01 JULY, 1975
AEDC - SWTA - 60A / IA87 CR-141,542	AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST (IA87) ON A 0.01-SCALE MODEL (52-OTS) OF THE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUPERSONIC WIND TUNNEL A	O/ET; O/ET,SRB; SRB	STATIC FORCE TEST OF SRB SEPARATION EFFECTS FOR A RANGE OF SSV ATTITUDES	FORCE	0.010 / 4.52 - 4.52	RI / AEDC - SUPERSONIC WIND TUNNEL (A)	J.H. CAMPBELL, CARL KNUDSEN, PAUL PEARSON/R.I. ROBERT BURT/ARO D. A. SARVER D.B. WATSON -DMS	DMS-DR-2192 VOLUME 02 JULY, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 199 / OH26 CR-151,380	RESULTS OF HEAT TRANSFER TEST OF A 0.0175-SCALE SPACE SHUTTLE ORBITER 140B MODEL (MODIFIED 22-0) IN THE NASA-AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL	SS ORB. 140B MODEL (MODIFIED 22-O)	TO OBTAIN AERO HEATING DATA ON ORBITER UNDER SIMULATED ENTRY CONDITIONS	HEAT-TRANS	0.0175 / 7.32- 7.32	ROCKWELL/ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2193 OCT., 1977
ARC - 97SWT - 019 / IA81B CR-141,817	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.03-O-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 9 X 7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81B) VOLUME 1 OF 5	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.9 - 1.4	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2194 VOLUME 01 NOV., 1975
ARC - 97SWT - 019 / IA81B CR-141,818	RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.03-O-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 9 X 7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81B) VOLUME 2 OF 5	LAUNCH VEHICLE 5	TO OBTAIN PRESSURE DISTRIBUTIONS, FORCE DATA, AND HINGE MOMENTS ON THE INTEGRATED LAUNCH VEHICLE	PRESSURE FORCE	0.03 / 0.9 - 1.4	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	T. J. DZIUBALA, E. CHEE, M. D. MILAM/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2194 VOLUME 02 DEC., 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 019 / IA81B CR-141,819	RESULTS OF A PRES SURE LOADS INVEST IGATION ON A 0.03 O-SCALE MODEL (47 -OTS) OF THE INTE GRATED SPACE SHUT TLE VEHICLE CONFI GURATION 5 IN THE NASA AMES RESEARC H CENTER 9 X 7 FO OT LEG OF THE UNI TARY PLAN WIND TU NNEL (IA81B) VOLU ME 3 OF 5	LAUNCH VEHICLE 5	TO OBTAIN PRESSUR E DISTRIBUTIONS, FORCE DATA, AND H INGE MOMENTS ON T HE INTEGRATED LAU NCH VEHICLE	PRESSURE FORCE	0.03 / 0.9 - 1.4	ROCKWELL/ ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	T. J. DZIUBALA, E . CHEE, M. D. MIL AM/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2194 VOLUME 03 DEC., 1975
ARC - 97SWT - 019 / IA81B CR-141,820	RESULTS OF A PRES SURE LOADS INVEST IGATION ON A 0.03 O-SCALE MODEL (47 -OTS) OF THE INTE GRATED SPACE SHUT TLE VEHICLE CONFI GURATION 5 IN THE NASA AMES RESEARC H CENTER 9 X 7 FO OT LEG OF THE UNI TARY PLAN WIND TU NNEL (IA81B) OVLU ME 4 OF 5	LAUNCH VEHICLE 5	TO OBTAIN PRESSUR E DISTRIBUTIONS, FORCE DATA, AND H INGE MOMENTS ON T HE INTEGRATED LAU NCH VEHICLE	PRESSURE FORCE	0.03 / 0.9 - 1.4	ROCKWELL/ ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	T. J. DZIUBALA, E . CHEE, M. D. MIL AM/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2194 VOLUME 04 DEC., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 019 / IA81B CR-141,821	RESULTS OF A PRES SURE LOADS INVEST IGATION ON A 0.03 0-SCALE MODEL (47 -OTS) OF THE INTE GRATED SPACE SHUT TLE VEHICLE CONFI GURATION 5 IN THE NASA AMES RESEARC H CENTER 9 X 7 FO OT LEG OF THE UNI TARY PLAN WIND TU NNEL (IA81B) VOLU ME 5 OF 5	LAUNCH VEHICLE 5	TO OBTAIN PRESSUR E DISTRIBUTIONS, FORCE DATA, AND H INGE MOMENTS ON T HE INTEGRATED LAU NCH VEHICLE	PRESSURE FORCE	0.03 / 0.9 - 1.4	ROCKWELL/ ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	T. J. DZIUBALA, E . CHEE, M. D. MIL AM/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2194 VOLUME 05 DEC., 1975
LARC - CFHT - 113 / 0A82 CR-134,442	RESULTS OF TEST 0 A82 IN THE NASA/L RC 31-INCH CFHT 0 N AN 0.010-SCALE MODEL(32-0) OF TH E SPACE SHUTTLE C ONFIGURATION 3 TO DETERMINE RCS JET FLOW FIELD IN TERACTION AND TO INVESTIGATE RT RE AL GAS EFFECTS	ORBITER CONFIG. 3	TO DETERMINE RCS JET INTERACTION E FFECTS ON HYPERSO NIC AERODYNAMIC CHARACTERISTICS A ND TO INVESTIGATE RT (GAS CONSTANT TIMES TEMP.) SCALING EFFECTS O N THE RCS SIMILIT UDE	FORCE	0.010 / 10.3 - 10.3	ROCKWELL/ LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	D. E. THORNTON/RI M. M. MANN -DMS	DMS-DR-2195 FEB., 1975
AEDC - HWTB - 71A / 0A79 CR-141,531	RESULTS OF INVEST IGATIONS OF AN 0. 015 SCALE SPACE S HUTTLE VEHICLE 140A/B CONFIGURAT ION WITH MODIFIED OMS PODS AND ELE VONS IN THE AEDC VKF TUNNEL B (0A7 9)	ORBITER 140A/B	TO DETERMINE EFFE CTS OF SURFACE D EFLECTIONS ELEVON , RUDDER, SPEED BRAKE, AND BODY F LAP CONFIGURATION AT MACH 8, ANGLE OF ATTACK RANGE OF 15D TO 45D, AN D ANGLE OF SIDESL IP RANGE OF -5D T O 5D	FORCE	8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	V. ESPARZA /ROCKW ELL INTERNATIONAL A. I. LINDAY /ROC KWELL INTERNATION AL M. M. MANN -DMS	DMS-DR-2196 MAY, 1975

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AEDC - HWTF - VA291 / FH10 CR-134,418	PRESSURE AND HEAT-FLUX RESULTS FROM THE SPACE SHUTTLE/EXTERNAL FUEL TANK INTERACTION TEST AT MACH NUMBERS 16 AND 19 (FH10)	ET MODEL MCR0200	TO MEASURE INTERACTION HEATING RATES ON ET MATED TO ORBITER UNDER LAMINAR FLOW CONDITIONS	HEAT-TRANS	0.0175 / 16 - 19	MSFC / AEDC - HYPERVELOCITY WIND TUNNEL (F)	E. B. BREWER, MSFC D. R. HABERMAN, ARO V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2197 OCT., 1974
AEDC - SWTA - 71A / OA115 CR-141,534	DIFFERENTIAL ELEVON EFFECTIVENESS - LATERAL CONTROL OPTIMIZATION AND ELEVON HINGE MOMENT INVESTIGATION ON A 0.015-SCALE SPACE SHUTTLE ORBITER MODEL (140 A/B/C MODIFIED) IN THE AEDC VKF WIND TUNNEL A (OA115)	ORBITER 140A/B	DETERMINE SUPERSONIC DIFFERENTIAL ELEVON/AILERON LATERAL CONTROL OPTIMIZATION, SUPERSONIC ELEVON HINGE MOMENTS, SUPERSONIC EFFECTS OF NEW BASELINE 6-INCH ELEVON/ELEVON AND ELEVON/FUSELAGE GAPS, AND SUPERSONIC EFFECTS OF THE NEW SHORT OMS PODS.	FORCE	2.0 - 5.0	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	V. ESPARZA / ROCKWELL INTERNATIONAL A. I. LINDSAY / ROCKWELL INTERNATIONAL R. H. LINDAHL -DMS	DMS-DR-2198 JULY, 1975
LARC - UPWT - 1074 / 1093 / LA43A/B LA43B TM-X 3315	SUPERSONIC DYNAMIC-STABILITY DERIVATIVES OF THE SPACE SHUTTLE LAUNCH VEHICLE	ORBITER; ET; SRB	TO DETERMINE DYNAMIC-STABILITY CHARACTERISTICS AT SUPERSONIC SPEEDS	FORCE	0.015 / 2.0 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	R. P. BOYDEN, D. C. FREEMAN, JR., E. E. DAVENPORT/LARC J. W. BALL R. H. LINDAHL -DMS	DMS-DR-2199 OCT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	SUBSONIC AND TRAN	ORBITER-140A/B; S	FORCED-OSCILLATIO	FORCE	0.3 -	ROCKWELL/	D. C. FREEMAN, JR	DMS-DR-2200
8TPT -	SONIC DYNAMIC-STA	RB; ET;	N TESTS; MEASURED		1.2	LARC -	.. R. P. BOYDEN,	OCT., 1976
677 /	BILITY CHARACTERI		WERE PITCH, ROLL			8-FOOT TRANSON	G. E. DAVENPORT/L	
LA44	STICS OF THE SPAC		, YAW DAMPING, NO			IC PRESSURE TU	ARC	
TM-X	E SHUTTLE LAUNCH		RMAL FORCE DUE TO			NNEL	J. W. BALL	
3336	VEHICLE		PITCH RATE, CROS				R. H. LINDAHL	
			S DERIVATIVES, YA				-DMS	
			WING MOMENT DUE T					
			O ROLL RATE, ROLL					
			ING MOMENT DUE TO					
			YAW RATE.					
UW -	MATED CARRIER AER	BOEING 747 CARRIE	TO PROVIDE AERODY	FORCE	0.04 /	BOEING /	R.D. KNUDSEN/BOEI	DMS-DR-2201
LSWT -	ODYNAMIC CHARACTE	R (MODEL TE 1065)	NAMIC CHARACTERIS		0.16 -	UW -	NG K.B. BUCANAN/B	DEC., 1981
1136 /	RISTICS INVESTIGA	SS ORBITER (MODEL	TICS FOR DEVELOPM		0.16	LOW SPEED WIND	OEING	
CA3	TION FOR 0.04-SCA	43-0)	ENT OF THE 747 AI			TUNNEL	R.L. HANSON/BOEIN	
CR-160,854	LE MODEL BOEING 7	747 CARRIER/ET (M	RCRAFT FOR ORBITE				G	
	47 CARRIER (MODEL	ODEL 1284-72)	R FERRY AND LAUNC				J. E. VAUGHN	
	TE 1065)/SS ORBI		H , TO PROVIDE TR				G. R. LUTZ	
	TER (MODEL 43-0)		ADE DATA FOR STAB				-DMS	
	AND 747 CARRIER/E		ILIZER SIZE AND L					
	T (MODEL 1284-72)		OCATION EFFECTS.					
	COMBINATIONS IN		AND TO PROVIDE DR					
	THE U. OF WASH. A		AG AND STABILITY					
	ERONAUTICAL LABOR		CHARACTERISTICS F					
	ATORY (UWAL) F.K.		OR THE AIRPLANE A					
	KIRSTEN WIND TUNN		ND EXTERNAL TANK					
	EL (CA3)		CONFIGURATION.					

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NRLAD - LSWT - 731 / OA123 CR-141,526	SPACE SHUTTLE VEHICLE FERRY CONFIGURATION AFTERBODY FAIRING EFFECTS ON 140A/B ORBITER AERODYNAMIC CHARACTERISTICS USING AN .0405-SCALE MODEL ORBITER (43-O) IN THE ROCKWELL INTERNATIONAL 7.75 X 11 FT LOW SPEED WIND TUNNEL (OA123)	140A/B OUTER MOLD LINE CONFIGURATION	TO DEFINE FERRY CONFIGURATION AFTERBODY FAIRING EFFECTS ON ORBITER STABILITY AND CONTROL CHARACTERISTICS AND TO SUBSTANTIATE WIND TUNNEL RESULTS OBTAINED AT BOEING AEROSPACE COMPANY	FORCE	0.26 - 0.26	ROCKWELL/NRLAD - LOW SPEED WIND TUNNEL	R. C. MENNELL/RI R. H. LINDAHL -DMS	DMS-DR-2202 APRIL, 1975
NRLAD - LSWT - 730 / OA119B CR-141,524	RESULTS OF AN INVESTIGATION OF ELEVON HINGE MOMENTS AND DUAL PANEL ELEVON EFFECTIVENESS USING AN .0405-SCALE MODEL (16-O) OF THE CONFIGURATION 140C SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL LOW SPEED WIND TUNNEL (OA119B)	140C OUTER MOLD LINE CONFIGURATION	TO DEFINE ORBITER LOW SPEED ELEVON/AILERON EFFECTIVENESS AND TO MEASURE INDIVIDUAL ELEVON PANEL HINGE MOMENTS FOR THE CURRENT 6 INCH ELEVON/ELEVON AND ELEVON FUSELAGE GAPS WITH WING/ELEVON GAP SEALING FLAPPER DOORS	FORCE	0.0405 / 0.20 - 0.26	ROCKWELL/NRLAD - LOW SPEED WIND TUNNEL	M. T. HUGHES/RI D. A. SARVER R. B. LOWE -DMS	DMS-DR-2203 APRIL, 1975
LARC - 8TPT - 693 / IA43 CR-141,525	RESULTS OF TRANSONIC WIND TUNNEL TESTS ON AN 0.010-SCALE SPACE SHUTTLE MATED VEHICLE MODEL 72-OTS IN THE LARC 8-FOOT TPT (IA43)	OTS, 140A/B	TO DETERMINE EFFECTS OF CONF. BUILDUP. EFFECTS OF PROTUBERANCES, ET/ORBITER FAIRINGS AND ATTACH STRUCTURE . ELEVON DEFLECTION EFFECTS ON WING BENDING MOMENT	FORCE	0.010 / 0.6 - 1.2	ROCKWELL/LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	M. T. PETROZZI, M. D. MILAN/ROCKWELL B. J. FRICKEN -DMS	DMS-DR-2204 MAY, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 22HT - 431 / OA109 CR-141,532	RESULTS OF A 0.004-SCALE 140C MODIFIED CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL (74-0) IN THE NASA/LANGLEY RESEARCH CENTER HYPERSONIC HELIUM TUNNEL (OA109)	RI SPACE SHUTTLE ORBITER VEHICLE 4 (MODIFIED) CONFIGURATION NFIGURATION	TO DETERMINE STABILITY AND CONTROL CHARACTERISTICS AT M=[illegible]	FORCE	0.004 / 19.0 - 21.6	ROCKWELL/ LARC - 22-INCH HELIUM TUNNEL	P. J. HAWTHORNE/RI D. A. SARVER R. B. LOWE -DMS	DMS-DR-2205 MAY, 1975
LARC - UPWT - 1088/1119/ IA44 CR-141,528	RESULTS OF INVESTIGATIONS ON AN O.010-SCALE 140A/B CONFIGURATION (MODEL 72OTS) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER IN THE NASA/LANGLEY RESEARCH CENTER UNITARY PLAN WIND TUNNEL (IA44)	0.010-SCALE OUTER MOLD LINE MODEL OF THE 140A/B CONFIGURATION	TO OBTAIN SIX-COMPONENT FORCE AND MOMENT DATA FOR THE MATED VEHICLE AT SUBSONIC AND TRANSONIC CONDITIONS;EFFECTS OF CONFIGURATION BUILD-UP;EFFECTS OF PROTURBERANCES,ET/ORBITER FAIRINGS AND ATTACK STRUCTURES;ELEVON DEFLECTION EFFECTS ON WING BENDING MOMENT	FORCE	.010 / 1.60 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	M. T. PETROZZI, M. D. MILAM/RI R. H. LINDAHL -DMS	DMS-DR-2206 MAY, 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - HRWT - 033 / SA29F CR-147,608	AN INVESTIGATION TO DETERMINE THE PRESSURE DISTRIBU TION ON THE 0.013 7 SCALE SOLID ROC KET BOOSTER FOREB ODY (MSFC MODEL 4 67) AT HIGH ANGLE S OF ATTACK AT OR NEAR 90 DEGREES AND HIGH REYNOLDS NUMBERS IN THE M SFC HIGH REYNOLDS NUMBER WIND TUNN EL	MODEL 467, SRB NO SE CONE AND FORWA RD CYLINDRICAL BO DY	TO DETERMINE THE PRESSURE DISTRIBU TION OVER THE FOR E-SECTION OF THE 146-INCH DIA. SRB	PRESSURE	0.4 - 0.6	MSFC / MSFC - HIGH REYNOLDS NUMBER WIND TU NNEL	P. E. RAMSEY/MSFC V. W. SPARKS -DMS	DMS-DR-2207 JULY, 1976
MSFC - 14TWT - 609 / TA3F CR-144,590	AN INVESTIGATION OF THE 0.0091SCAL E EXTERNAL TANK O GIVE NOSE (MSFC M ODEL 470) IN THE MSFC 14 INCH TWT TO DETERMINE THE PRESSURE DISTRIBU TION AROUND THE E XTERNAL TANK NOSE	MODEL NO. 470	TO DETERMINE THE PRESSURE DISTRIBU TION AROUND THE N OSE CAP	PRESSURE	0.0091 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY/MSFC G. W. WINKLER, T. C. DAVIS/NSI V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2208 VOLUME 01 JAN., 1976
MSFC - 14TWT - 609 / TA3F CR-144,591	AN INVESTIGATION OF THE 0.0091SCAL E EXTERNAL TANK O GIVE NOSE (MSFC M ODEL 470) IN THE MSFC 14 INCH TWT TO DETERMINE THE PRESSURE DISTRIBU TION AROUND THE E XTERNAL TANK NOSE	MODEL NO. 470	TO DETERMINE THE PRESSURE DISTRIBU TION AROUND THE N OSE CAP	PRESSURE	0.0091 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY/MSFC G. W. WINKLER, T. C. DAVIS/NSI V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2208 VOLUME 02 JAN., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 736 / OA124 CR-141,536	RESULTS OF A SPAC E SHUTTLE VEHICLE FERRY CONFIGURAT ION AFTERBODY FAI RING OPTIMIZATION STUDY USING A 14 OA/B 0.0405-SCALE MODEL ORBITER (4 3-O) IN THE ROCKW ELL INTERNATIONAL 7.75 X 11.0 FT L OW SPEED WIND TUN NEL (OA124)	MODEL 43-O	INVESTIGATE AEROD YNAMIC STABILITY AND CONTROL CHARA CTERISTICS OF THE SSV FERRY CONFIG URATION	FORCE	.26 - .26	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R. C. MENNEL,F. F . FITZGERALD/ROCK WELL R. B. LOWE -DMS	DMS-DR-2205 JUNE, 1975
ARC - 3.5HWT - 200 / IH27 CR-151,372	CONNECTIVE HEAT-T RANSFER TEST RESU LTS FOR A GAP, CY LINDRICAL-PROTUBE RANCE, AND SHOCK- IMPINGEMENT FLAT- PLATE MODEL IN TH E NASA-AMES 3.5-F OOT HYPERSONIC WI ND TUNNEL (TEST I H27, MODEL 15-O V III)	15-O VIII (FLAT-P LATE CARRIER)	TO DETERMINE EFFE CTS OF SURFACE PR OTUBERANCES AND S HOCK IMPINGEMENT ON SURFACE HEATIN G AND HEATING IN SIMULATED TPS TIL E GAPS	HEAT-TRANS	5.22 5.24	ROCKWELL/ ARC - 3.5 FOOT HYPER SONIC WIND TUN NEL	T. F. FOSTER, W. H. DYE/RI W. K. LOCKMAN D.W.HERSEY J. E. VAUGHN -DMS	DMS-DR-2210 JUNE, 1979
TBCA - BTWT - 1431 / CA5 CR-141,800	RESULTS OF A 0.03 -SCALE AERODYNAMI C CHARACTERISTICS INVESTIGATION OF A BOEING 747 CARR IER(MODEL NO. AX 1319 I-1) MATED W ITH A SPACE SHUTT LE ORBITER (MODEL 45-O) CONDUCTED IN THE BOEING TRA NSONIC WIND TUNNE L (CA5)	0.03-SCALE AX 131 9 I-1 (CARRIER) M ODEL 0.03-SCALE 45-O (ORBITER) MODEL	DETERMINE PERFORM ANCE,STABILITY,AN D CONTROL CHARACT ERISTICS OF VARIO US CARRIER AIRCRA FT CONFIGURATIONS ;INVESTIGATE AERO DYNAMIC CHARACTER ISTICS OF THE CAR RIER MATED WITH T HE ORBITER, CARRI ER ALONE, AND ORBITER ALONE	FORCE	0.03 / 0.15 - 0.70	BOEING / TBCA - TRANSONIC WIND TUNNEL	R.D. KNUDSEN, J. AUGUSTYN, E. DICK SON/BOEING CO. D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2211 VOLUME 01 SEPT., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
TBCA - BTWT - 1431 / CA5 CR-141,803	RESULTS OF A 0.03-SCALE AERODYNAMIC CHARACTERISTICS INVESTIGATION OF LE ORBITER (MODEL 45-O) CONDUCTED IN THE BOEING TRANSONIC WIND TUNNEL (CA5)	0.03-SCALE AX 1319 I-1 (CARRIER) MODEL 0.03-SCALE 45-O (ORBITER) MODEL	DETERMINE PERFORMANCE,STABILITY,AND CONTROL CHARACTERISTICS OF VARIOUS CARRIER AIRCRAFT CONFIGURATIONS; INVESTIGATE AERODYNAMIC CHARACTERISTICS OF THE CARRIER MATED WITH THE ORBITER,CARRIER ALONE,AND ORBITER ALONE	FORCE	0.03 / 0.15 - 0.70	BOEING / TBCA - TRANSONIC WIND TUNNEL	R.D. KNUDSEN, J. AUGUSTYN, E. DICKSON/BOEING CO. D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2211 VOLUME 02 SEPT., 1975
TBCA - BTWT - 1431 / CA5 CR-141,804	RESULTS OF A 0.03-SCALE AERODYNAMIC CHARACTERISTICS INVESTIGATION OF A BOEING 747 CARRIER(MODEL NO. AX-1319 I-1) MATED WITH A SPACE SHUTTLE ORBITER (MODEL 45-O) CONDUCTED IN THE BOEING TRANSONIC WIND TUNNEL (CA5)	0.03-SCALE AX-1319 I-1(CARRIER) MODEL 0.03-SCALE 45-O (ORBITER) MODEL	DETERMINE PERFORMANCE,STABILITY,AND CONTROL CHARACTERISTICS OF VARIOUS CARRIER AIRCRAFT CONFIGURATIONS; INVESTIGATE AERODYNAMIC CHARACTERISTICS OF THE CARRIER MATED WITH THE ORBITER,CARRIER ALONE,AND ORBITER ALONE	FORCE	0.03 / 0.15 - 0.70	BOEING / TBCA - TRANSONIC WIND TUNNEL	R.D. KNUDSEN, J. AUGUSTYN, E. DICKSON/BOEING CO. D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2211 VOLUME 03 SEPT., 1975
ARC - 11TWT - 023 / IA80 CR-147,632	INVESTIGATIONS OF THE 0.020-SCALE 88-OTS INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL IN THE NASA/AMES RESEARCH CENTER 11X11-FOOT UNITARY PLAN WIND TUNNEL (IA80)	LAUNCH VEHICLE 5	DETERMINE INTEGRATED VEHICLE SURFACE-PRESSURE DISTRIBUTIONS, ELEVON AND RUDDER HINGE MOMENTS, AND WING AND VERTICAL-TAIL ROOT BENDING AND TORSIONAL MOMENTS DUE TO MPS AND SRB PLUME INTERACTIONS	FORCE PRESSURE	0.020 / 0.6 - 1.4	ROCKWELL/ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	M. E. NICHOLS/RI C. R. EDWARDS -DMS	DMS-DR-2212 VOLUME 01 OCT., 1976

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ARC - 11TWT - 023 / IA80 CR-147,633	INVESTIGATIONS OF THE 0.020-SCALE 88-OTS INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL IN THE NAS A/AMES RESEARCH C ENTER 11X11-FOOT UNITARY PLAN WIND TUNNEL (IA80)	LAUNCH VEHICLE 5	DETERMINE INTEGRA TED VEHICLE SURFA CE-PRESSURE DISTR IBUTIONS, ELEVON AND RUDDER HINGE MOMENTS, AND WING AND VERTICAL-TAI L ROOT BENDING AND TORSIONAL MOM ENTS DUE TO MPS A ND SRB PLUME INTE RACTIONS	FORCE PRESSURE	0.020 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	M. E. NICHOLS/RI C. R. EDWARDS -DMS	DMS-DR-2212 VOLUME 02 OCT., 1976
ARC - 11TWT - 023 / IA80 CR-147,634	INVESTIGATIONS OF THE 0.020-SCALE 88-OTS INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL IN THE NAS A/AMES RESEARCH C ENTER 11X11-FOOT UNITARY PLAN WIND TUNNEL (IA80)	LAUNCH VEHICLE 5	DETERMINE INTEGRA TED VEHICLE SURFA CE-PRESSURE DISTR IBUTIONS, ELEVON AND RUDDER HINGE MOMENTS, AND WING AND VERTICAL-TAI L ROOT BENDING AND TORSIONAL MOM ENTS DUE TO MPS A ND SRB PLUME INTE RACTIONS	FORCE PRESSURE	0.020 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	M. E. NICHOLS/RI C. R. EDWARDS -DMS	DMS-DR-2212 VOLUME 03 OCT., 1976
ARC - 11TWT - 023 / IA80 CR-147,635	INVESTIGATIONS OF THE 0.020-SCALE 88-OTS INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL IN THE NAS A/AMES RESEARCH C ENTER 11X11-FOOT UNITARY PLAN WIND TUNNEL (IA80)	LAUNCH VEHICLE 5	DETERMINE INTEGRA TED VEHICLE SURFA CE-PRESSURE DISTR IBUTIONS, ELEVON AND RUDDER HINGE MOMENTS, AND WING AND VERTICAL-TAI L ROOT BENDING AND TORSIONAL MOM ENTS DUE TO MPS A ND SRB PLUME INTE RACTIONS	FORCE PRESSURE	0.020 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	M. E. NICHOLS/RI C. R. EDWARDS -DMS	DMS-DR-2212 VOLUME 04 OCT., 1976

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LARC - HNT - 30-31 / OA89 CR-141,513	RESULTS OF INVESTIGATIONS ON AM O.004-SCALE 140C MODIFIED CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL (74-O) IN THE NASA/LANGLEY RESEARCH CENTER HYPERSONIC NITROGEN TUNNEL (OA89)	140C MODIFIED SPACE SHUTTLE ORBITER MODEL 74-O	OBTAIN HYPERSONIC LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS OF THE UPDATED SSV CONFIGURATION IN AN INITIALLY DIATOMIC MEDIUM	FORCE	0.004 / 19.8 - 19.8	ROCKWELL/ LARC - HYPERSONIC NITROGEN TUNNEL	P.J. HAWTHORNE/RI W.C. WOODS/LARC G. G. MCDONALD -DMS	DMS-DR-2214 APRIL, 1975
LTV - HSWT - 512 / LA58 CR-144,592	UPPER WING SURFACE BOUNDARY LAYER MEASUREMENTS AND STATIC AERODYNAMIC DATA OBTAINED ON AN 0.015-SCALE MODEL OF THE SSV ORBITER CONFIGURATION 140A/B IN THE LTV ASWT AT A MACH NUMBER OF 4.6 (LA58)	SSV ORBITER CONFIGURATION 140A/B-O .015 SCALE	TO INVESTIGATE THE NATURE OF THE ORBITER BOUNDARY LAYER CHARACTERISTICS AT ANGLES OF ATTACK FROM -4 TO 32 DEGREES AT A MACH NUMBER OF 4.6.THE EFFECT OF LARGE GRIT WERE INVESTIGATED PLUS EFFECTS OF LARGE NEGATIVE ELEVON DEFLECTION ON LEE-SIDE SEPARATION.	FORCE	4.6 - 4.6	LARC / LTV - HIGH SPEED WIND TUNNEL	BENARD SPENCER,JR.,R.L. STALLINGS,JR.,LARC;T.C. POPE,LTV R. H. LINDAHL -DMS	DMS-DR-2215 FEB., 1976
LARC - UPWT - 1115 / SH12F CR-141,802	RESULTS OF AEROTHERMODYNAMIC HEATING TEST ON A 0.013 SCALE MODEL SOLID ROCKET BOOSTER IN THE NASA/LARC UNITARY PLAN WIND TUNNEL (SH12F)	SRB	OBTAIN AERODYNAMIC HEATING DATA ON SRB	HEAT-TRANS	0.013 / 3.7 - 3.7	MSFC / LARC - UNITARY PLAN WIND TUNNEL	E. B. BREWER/MSFC J.T.DAVIET -DMS	DMS-DR-2216 AUGUST, 1975

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TBCA - BTWT - 1431 / CA20 CR-141,844	AERODYNAMIC RESUL TS OF A SEPARATIO N TEST(CA20) COND UCTED AT THE BOEI NG TRANSONIC WIND TUNNEL USING 0.0 30-SCALE MODELS O F THE CONFIGURATI ON 140A/B (MODIFI ED) SSV ORBITER (MODEL NO. 45-0) A ND THE BEOING 747 CARRIER (MODEL NO . AX 1319 I-1)	0.03-SCALE 45-0 M ODIFIED SSV ORBIT ER 140A/B 0.03-SCALE 747 CA RRIER MODEL	ORBITER CONFIGURA TION 140A/B AND 7 47 CARRIER MODELS WERE TESTED TO P ROVIDE SIX-COMPON ENT FORCE AND MOM ENT DATA FOR EACH VEHICLE IN PROXI MITY TO THE OTHER AT A MATRIX OF T EST CONDITIONS AN D TO DETERMINE OR BITER TARE EFFECT S TO OBTAIN SUPPO RT-FREE AERODYNAM ICS.	FORCE	0.003 , R 0.003 / 0.30 - 0.60	BOEING / TBCA - TRANSONIC WIND TUNNEL	T. DZIUBALA,V. ES PARZA,R. L. GILLI NS,M. PETROZZI,RI C. R. MULLEN,BOEI NG AEROSPACE D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2217 VOLUME 01 JAN., 1976
TBCA - BTWT - 1431 / CA20 CR-141,845	AERODYNAMIC RESUL TS OF A SEPARATIO N TEST(CA20) COND UCTED AT THE BOEI NG TRANSONIC WIND TUNNEL USING 0.0 30-SCALE MODELS O F THE CONFIGURATI ON 140A/B (MODIFI ED) SSV ORBITER (MODEL NO. 45-0) A ND THE BEOING 747 CARRIER (MODEL NO . AX 1319 I-1)	0.03-SCALE 45-0 M ODIFIED SSV ORBIT ER 140A/B 0.03-SCALE 747 CA RRIER MODEL	ORBITER CONFIGURA TION 140A/B AND 7 47 CARRIER MODELS WERE TESTED TO P ROVIDE SIX-COMPON ENT FORCE AND MOM ENT DATA FOR EACH VEHICLE IN PROXI MITY TO THE OTHER AT A MATRIX OF T EST CONDITIONS AN D TO DETERMINE OR BITER TARE EFFECT S TO OBTAIN SUPPO RT-FREE AERODYNAM ICS.	FORCE	0.003 , R 0.003 / 0.30 - 0.60	BOEING / TBCA - TRANSONIC WIND TUNNEL	T. DZIUBALA,V. ES PARZA,R. L. GILLI NS,M. PETROZZI,RI C. R. MULLEN,BOEI NG AEROSPACE D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2217 VOLUME 02 JAN., 1976

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TBCA - BTWT - 1431 / CA20 CR-141,846	AERODYNAMIC RESULTS OF A SEPARATION TEST(CA20) CONDUCTED AT THE BOEING TRANSONIC WIND TUNNEL USING 0.030-SCALE MODELS OF THE CONFIGURATION 140A/B (MODIFIED) SSV ORBITER (MODEL NO. 45-O) AND THE BEOING 747 CARRIER (MODEL NO. AX 1319 I-1)	0.03-SCALE 45-O MODIFIED SSV ORBITER 140A/B 0.03-SCALE 747 CARRIER MODEL	ORBITER CONFIGURATION 140A/B AND 747 CARRIER MODELS WERE TESTED TO PROVIDE SIX-COMPONENT FORCE AND MOMENT DATA FOR EACH VEHICLE IN PROXIMITY TO THE OTHER AT A MATRIX OF TEST CONDITIONS AND TO DETERMINE ORBITER TARE EFFECTS TO OBTAIN SUPPORT-FREE AERODYNAMICS.	FORCE	0.003 , R 0.003 / 0.30 - 0.60	BOEING / TBCA - TRANSONIC WIND TUNNEL	T. DZIUBALA,V. ESPARZA,R. L. GILLINS,M. PETROZZI,RI C. R. MULLEN,BOEING AEROSPACE D. A. SARVER R. H. LINDAHL -DMS	DMS-DR-2217 VOLUME 03 JAN., 1976
AEDC - HWTF - 25A / TH1F CR-151,367	PRESSURE AND HEAT TRANSFER TESTS RESULTS ON THE SPACE SHUTTLE 0.015-SCALE EXTERNAL TANK AT MACH 16 IN AEDC TUNNEL F	EXTERNAL TANK	TO OBTAIN BASIC HEATING AND PRESSURE DISTRIBUTION DATA ON ET	HEAT-TRANS	0.38 - 1.10	MSFC / AEDC - HYPERVELOCITY WIND TUNNEL (F)	L. G. SILER, A. H. BOUDREAU/ARO H. R. CARROLL/MMC J. E. VAUGHN -DMS	DMS-DR-2218 SEPT., 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 87SWT - 044 / IA82C CR-144,597	RESULTS OF AN INVESTIGATION OF JET PLUME EFFECTS ON AN 0.010-SCALE MODEL (75-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE 8- BY 7-FOOT LEG OF THE NASA/AMES UNITARY WIND TUNNEL (IA82C)	LAUNCH VEHICLE 5	DEFINE THE BASE PRESSURE ENVIRONMENT OF THE FIRST AND SECOND STAGE MATED VEHICLE IN A SUPERSONIC FLOW FIELD FROM MACH 2.50 THROUGH 3.50 WITH SIMULATED ROCKET ENGINE EXHAUST PLUMES. DETERMINE PRESSURE ENVIRONMENT OF THE ORBITER AT VARIOUS VENT PORT LOCATIONS.	FORCE PRESSURE	0.010 / 2.50 - 3.50	ROCKWELL/ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	P. J. HAWTHORNE/RI M. M. MANN -DMS	DMS-DR-2219 VOLUME 01 APRIL, 1976
ARC - 87SWT - 044 / IA82C CR-144,598	RESULTS OF AN INVESTIGATION OF JET PLUME EFFECTS ON AN 0.010-SCALE MODEL (75-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE 8- BY 7-FOOT LEG OF THE NASA/AMES UNITARY WIND TUNNEL (IA82C)	LAUNCH VEHICLE 5	DEFINE THE BASE PRESSURE ENVIRONMENT OF THE FIRST AND SECOND STAGE MATED VEHICLE IN A SUPERSONIC FLOW FIELD FROM MACH 2.50 THROUGH 3.50 WITH SIMULATED ROCKET ENGINE EXHAUST PLUMES. DETERMINE PRESSURE ENVIRONMENT OF THE ORBITER AT VARIOUS VENT PORT LOCATIONS.	FORCE PRESSURE	0.010 / 2.50 - 3.50	ROCKWELL/ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	P. J. HAWTHORNE/RI M. M. MANN -DMS	DMS-DR-2219 VOLUME 02 APRIL, 1976
LARC - 20HT6 - 458 / LA52				FORCE		LARC / LARC 20-INCH HYPERSONIC TUNNEL (MACH 6)	D.B. WATSON -DMS	DMS-DR-2220 TO LRC

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NRLAD - LSWT - 737 / OA143 CR-141,548	INVESTIGATION OF SPACE SHUTTLE VEHICLE 140C CONFIGURATION ORBITER (MODEL 16-O) WHEEL WELL PRESSURE LOADS IN THE ROCKWELL INTERNATIONAL 7.75 X 11 FOOT WIND TUNNEL (OA143)	140C CONFIGURATION ORBITER (MODEL 16-O)	TO DEFINE ORBITER WHEEL WELL PRESSURE LOADING AND ITS EFFECT ON LANDING GEAR THERMAL INSULATION; TO INVESTIGATE THE PRESSURE ENVIRONMENT FOR THE HORIZONTAL FLIGHT NOSE PROBE AND AIR VENT DOOR PROBES	PRESSURE	.0405 / .20 - .23	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL/ R. I. R.C. MENNELL/ R. I. D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2221 JULY, 1975
AEDC - HWTB - 57A / OH49B CR-147,626	RESULTS FROM A CONVECTIVE HEAT-TRANSFER-RATE DISTRIBUTION TEST ON A 0.0175 SCALE MODEL(22-O) OF THE ROCKWELL INTERNATIONAL VEHICLE 4 SPACE SHUTTLE CONFIGURATION IN THE AEDC-VKF TUNNEL B(OH49B)	B25C10M4F10E26R5V7W116	RE-ENTRY CONVECTIVE HEAT TRANSFER RATES ON THE ORBITER	HEAT-TRANS	0.0175 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	B.J. HERRERA/ROCKWELL INTERNATIONAL J. E. VAUGHN -DMS	DMS-DR-2222 VOLUME 01 OCT., 1976
AEDC - HWTB - 57A / OH49B CR-147,627	RESULTS FROM A CONVECTIVE HEAT-TRANSFER-RATE DISTRIBUTION TEST ON A 0.0175 SCALE MODEL(22-O) OF THE ROCKWELL INTERNATIONAL VEHICLE 4 SPACE SHUTTLE CONFIGURATION IN THE AEDC-VKF TUNNEL B(OH49B)	B25C10M4F10E26R5V7W116	RE-ENTRY CONVECTIVE HEAT TRANSFER RATES ON THE ORBITER	HEAT-TRANS	0.0175 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	B.J. HERRERA/ROCKWELL INTERNATIONAL J. E. VAUGHN -DMS	DMS-DR-2222 VOLUME 02 NOV., 1976

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MSFC - 14TWT - 604 / SA8F CR-141,549	REENTRY STATIC ST ABILITY CHARACTER ISTICS OF A .0054 79 SCALE MODEL 14 6-INCH SOLID ROCK ET BOOSTER TESTED IN THE NASA/MSFC 14X14 INCH TWT	ORB.W/ ATTACH RIN G,AFT RING,W/AND W/O PROTUBERANCES , NOSE CAP ORB.W/ ALL PROTUB ERANCES; ORB.W/O HEAT SHIE LD	TO ESTABLISH STAT IC STABILITY CHAR ACTERISTICS OF SR B DURING REENTRY	FORCE	0.4 - 4.45	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	J. D. JOHNSON/MSF C S. C. PRAHARAJ, W . F. BRADDOCK/NSI R. B. LOWE -DMS	DMS-DR-2223 JULY, 1975
LARC - LARC - 699 / 8TPT - LA56 CR-147,650	RESULTS OF A DRAG REDUCTION INVEST IGATED ON AN 0.01 O-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 72-OTS L AUNCH CONFIGURATI ON TESTED IN THE LARC 8-FOOT TRANS ONIC PRESSURE TUN NEL FOR THE MACH RANGE OF 0.35 TO 1.20 (LA56)	72-OTS (ORB., ET, SRM)	INVESTIGATION OF SPACE SHUTTLE LAU NCH VEHICLE DRAG REDUCTION AT MACH NUMBERS 0.35 TO 1 .20	FORCE	0.010 / 0.6 - 1.2	LARC / LARC - NASA LANGLEY R ESEARCH CENTER 8-FOOT TRANSON IC PRESSURE TU NNEL	BERNARD SPENCER,J R./LARC GEORGE M. WARE/LA RC J. W. BALL G. G. MCDONALD -DMS	DMS-DR-2224 MARCH, 1978
AEDC - HWTB - VA352 / OH4C CR-141,505	PHASE CHANGE PAIN T TESTS TO INVEST IGATE EFFECTS OF TPS TILES ON HEAT ING RATES OF THE ROCKWELL SPACE SH UTTLE ORBITER (TE ST OH4C, MODEL 21 -O)	MODEL 21-O, LINES VL70-000139	TO EVALUATE AEROD YNAMIC HEATING EF FECTS OF TILES IN THE TPS. TILE GA P DEPTH AND ORIEN TATION TO THE FLO W WERE INVESTIGAT ED.	HEAT-TRANS	0.0175 / 8 - 8	RI / AEDC - HYPERSONIC WIN D TUNNEL (B)	M. QUAN,C. W. CRA IG/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2225 MARCH, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - SWTA - VA422 / 21AA / IA61B CR-141,507	RESULTS OF FLOW V ISUALIZATION TEST S OF 0.010-SCALE SPACE SHUTTLE MODELS 32-OTS AND 52-0 IN THE AEDC VKF TUNNEL A (IA 61B)	SPACE SHUTTLE VEH ICLE CONFIGURATIO N 3 MODEL 32-OTS SPACE SHUTTLE ORB ITER MODEL 52-0	OIL FLOW VISUALIZ ATION	FORCE	3.75- 5.03	RI / AEDC - SUPERSONIC WIN D TUNNEL (A)	J.J.DAILEDA/ROCKW ELL W.R.MARTINDALE/AR O.INC. D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2226 FEB., 1975
MSFC - 14TWT - 610 / IA71 CR-141,806	RESULTS OF EXPERI MENTAL TESTS IN T HE MSFC 14X14 INC H TRISONIC TUNNEL ON A .004 SCALE M ODEL SPACE SHUTTL E INTEGRATED VEHI CLE 5 (MODEL 77-O , 74-TS) TO RELIE VE WING LOADS DUR ING ASCENT (IA71)	ORB./W/ET AND SRB 740TS; ORB. W/ET AND SRB'S 770, 7 4TS	EFFECTIVENESS OF SEVERAL LOAD RELI EF SCHEMES ON WIN G TORSIONAL AND B ENDING MOMENTS AT SUBSONIC + SUPER SONIC MACH NO'S E NCOUNTERED DURING LAUNCH	FORCE	0.0040 / 0.60 - 1.96	RI / MSFC - 14-INCH TRISON IC WIND TUNNEL	E. C. ALLEN/R. I. D.B. WATSON -DMS	DMS-DR-2227 NOV., 1975
LARC - UPWT - 1092/1117/ 1117 / LA46A/B				FORCE		LARC / LARC - UNITARY PLAN W IND TUNNEL	D.B. WATSON -DMS	DMS-DR-2228 TO LRC
LARC - 8TPT - 687 / OA102 CR-141,508	RESULTS OF FLOW-V ISUALIZATION INVE STIGATIONS ON A O .015-SCALE MODIFI ED CONFIGURATION 140A/B SPACE SHUT TLE VEHICLE ORBIT ER (MODEL 36-O) I N THE LANGLEY RES EARCH CENTER	SSV 140A/B	TO DETERMINE SEPA RATION ZONES, FLO W-RECIRCULATION R EGIONS, AND POTEN TIAL VENTING AND CONTAMINANT-INGES TION PROBLEM AREA S	FORCE	0.015 / 0.6 - 1.2	ROCKWELL/ LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	M. E. NICHOLS/RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2229 FEB., 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - VA422 / IA17B CR-141,509	RESULTS OF OIL FLOW VISUALIZATIONS TESTS OF AN 0.010-SCALE MODEL (52-OT) OF THE SPACE SHUTTLE ORBITER-TANK MATED AND ORBITER CONFIGURATIONS IN THE AEDC VKF TUNNEL B (IA17B)	ORBITER-TANK MATED. MODEL 52-OT	TO INVESTIGATE AERODYNAMIC FLOW PATTERNS USING OIL FLOW TECHNIQUES	FORCE	0.010 / 7.95 - 7.95	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J. J. DAILEDA/RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2230 FEB., 1975
ARC - 97SWT - 044 / IA82B CR-144,601	RESULTS OF AN INVESTIGATION OF JET-PLUME EFFECTS ON AN 0.010-SCALE MODEL (75-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE 9- BY 7-FOOT LEG OF THE NASA/AMES UNITARY WIND TUNNEL (IA82C)	LAUNCH VEHICLE 5	DEFINE THE BASE PRESSURE ENVIRONMENT OF THE FIRST AND SECOND STAGE MATED VEHICLE IN A SUPERSONIC FLOW FIELD FROM MACH 1.55 THROUGH 2.20	FORCE PRESSURE	0.010 / 1.55 - 2.20	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	P. J. HAWTHORNE/RI M. M. MANN -DMS	DMS-DR-2231 VOLUME 01 APRIL, 1976
ARC - 97SWT - 044 / IA82B CR-144,602	RESULTS OF AN INVESTIGATION OF JET-PLUME EFFECTS ON AN 0.010-SCALE MODEL (75-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE 9- BY 7-FOOT LEG OF THE NASA/AMES UNITARY WIND TUNNEL (IA82C)	LAUNCH VEHICLE 5	DEFINE THE BASE PRESSURE ENVIRONMENT OF THE FIRST AND SECOND STAGE MATED VEHICLE IN A SUPERSONIC FLOW FIELD FROM MACH 1.55 THROUGH 2.20	FORCE PRESSURE	0.010 / 1.55 - 2.20	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	P. J. HAWTHORNE/RI M. M. MANN -DMS	DMS-DR-2231 VOLUME 02 APRIL, 1976

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MSFC - 14TWT - 607 / OA131 CR-141,521	RESULTS OF INVESTIGATIONS ON THE 0.004-SCALE MODEL 74-0 OF THE CONFIGURATION 4 (MODIFIED) SPACE SHUTTLE VEHICLE ORBITER IN THE NASA/MSFC 14-BY-14-INCH TRISONIC WIND TUNNEL (OA131)	MODEL 74-0, CONF. 4	TO DETERMINE BOUNDARY-LAYER SEPARATION AND REGIONS OF POTENTIAL APU EXHAUST RECIRCULATION DURING TRANSONIC AND LOW SUPERSONIC RE-ENTRY FLIGHT	FORCE	0.004 / 0.60 - 2.75	ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	M. E. NICHOLS/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2232 JUNE, 1975
LARC - 8TPT - 703 / LA59 CR-151,068	RESULTS OF A DRAG REDUCTION INVESTIGATION ON AN 0.010-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 72-OTS LAUNCH CONFIGURATION TESTED IN THE LARC 8-FOOT TRANSONIC PRESSURE TUNNEL FOR THE MACH RANGE OF 0.3K TO 1.20	72-OTS (B26C9E44F10FL10/11M16N28/86PS1-SR5S21T2,V8W116	TO DETERMINE EFFECTS OF VARIOUS CONFIGURATIONAL COMPONENTS ON TOTAL DRAG OF VEH. 5	FORCE	0.35 - 1.20	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	B. SPENCER, JR., G. M. WARE/LARC J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2233 JUNE, 1977
CALSPAN - 48HST - I84-220 / OA113 CR-141,547	WIND TUNNEL TEST OA113 OF THE 0.010-SCALE SPACE SHUTTLE ORBITER MODEL 51-O IN THE CALSPAN HYPERSONIC SHOCK TUNNEL (48-INCH LEG)	ORBITER WITH ELEVON AND BODY FLAP DEFLECTIONS	OBTAIN VISCOUS INTERACTION EFFECTS ON STABILITY DERIVATIVES OVER THE RE-ENTRY MACH SPECTRUM TOGETHER WITH SCHLIEREN PHOTOS AND PRESSURE DATA UTILIZED TO EVALUATE FLOW SEPARATION PHENOMENA	FORCE	0.010 / 10.0 - 16.0	ROCKWELL/ CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL	RICK BURROWS, JOHN MARROQUIN/R.I. C. E. ROGERS/CALSPAN CORP. D. A. SARVER J. E. VAUGHN -DMS	DMS-DR-2234 JULY, 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE RANGE / MACH	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 611 / SA30F CR-141,810	REENTRY AERODYNAMIC FORCES AND MOMENTS ON THE ENGINE NOZZLE OF THE 146-INCH SOLID ROCKET BOOSTER NODEL 473 IN MSFC 14 X 14 INCH TRISONIC WIND TUNNEL (SA30F)	SRB W/O HEAT SHIELD, W/HEAT SHIELD ON SKIRT, W/HEAT SHIELD ON NOZZLE	TO DETERMINE AERODYNAMIC FORCES AND MOMENTS IMPOSED ON SRB NOZZLE DURING REENTRY	FORCE	1.95 - 3.48	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	J. D. JOHNSON/MSFC W. F. BRADDOCK/NSI V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2235 NOV., 1975
UW - LSWT - 1146 / CA11 CR-141,835	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR 0.04-SCALE MODEL BOEING 747 CAM/EXTERNAL TANK (MODEL AX1284 E-5) COMBINATION IN THE UNIVERSITY OF WASHINGTON AERONAUTICAL LABORATORY F. K. KIRSTEN WIND TUNNEL (CA11)	BOEING 747 MATED WITH AN EXTERNAL TANK BOEING 747 ALONE	TO DETERMINE AIRLOADS FOR SELECTED CONFIGURATIONS AND DETERMINE EFFECTIVENESS OF ET POSITION, ET INCIDENCE, SUPPORT STRUCTURE AND 747 VERTICAL STABILIZING SURFACES ON STABILITY, CONTROL AND PERFORMANCE OF 747/ET COMBINATIONS	FORCE	0.04 / .15 - .15	BOEING / UW - LOW SPEED WIND TUNNEL	R.D.KNUDSEN/BOEING R.W.SENDER/BOEING D. A. SARVER W. B. MEINDERS -DMS	DMS-DR-2236 DEC., 1975
CALSPAN - 48HST - I84-120 / OA93 CR-141,847	RESULTS OF WIND TUNNEL RCS INTERACTION TESTS ON A 0.010-SCALE SPACE SHUTTLE ORBITER MODEL (51-0) IN THE CALSPAN CORPORATION 48-INCH HYPERSONIC SHOCK TUNNEL	51-0	TO DETERMINE EFFECTS OF RCS JET/FLOW FIELD INTERACTIONS ON SSV AERO. STABILITY AND CONTROL CHARACTERISTICS AT VARIOUS HYPERSONIC MACH AND REYNOLDS NUMBERS	FORCE	0.010 / 9.60 - 10.75	ROCKWELL/ CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL	J. J. DAILEDA, J. MARROQUIN/RI C. E. ROGERS/CALSPAN CORP. V. W. SPARKS V. W. SPARKS -DMS	DMS-DR-2238 NOV., 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 676 / LA38B				FORCE		LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	J. E. VAUGHN D.B. WATSON -DMS	DMS-DR-2239 TO LRC
AEDC - SWTA - A4A / IH41A CR-151,054	RESULTS OF AN INV ESTIGATION OF THE SPACE SHUTTLE IN TEGRATED VEHICLE AERODYNAMIC HEATI NG CHARACTERISTIC S OBTAINED USING THE 0.0175-SCALE MODEL 60-OTS IN T HE AEDC TUNNEL A DURING TESTS IH41 AND IH41A	60-OTS THERMOCOUP LE MODEL	TO OBTAIN HEAT TR ANSFER DATA ON SS INTEGRATED VEHIC LE DURING ASCENT OF FLIGHT PROFILE	HEAT-TRANS	2.5 - 4.5	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. W. CUMMINGS, W . H. DYE/RI D. A. SARVER M. M. MANN -DMS	DMS-DR-2240 APRIL, 1977
AEDC - HWTB - 74A / OH39 CR-160,490	AN INVESTIGATION OF ENTRY HEATING ON THE 0.0175 SCA LE SPACE SHUTTLE ORBITER (MODEL 60 -0) IN THE AEDC U KF TUNNEL B	MODEL 60-3. VEH. 4	TO INVESTIGATE EN TRY HEATING	HEAT-TRANS	0.0175 / 8.0 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	B. J. HERRERA/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2241 VOLUME 01 JULY, 1980
AEDC - HWTB - 74A / OH39 CR-160,491	AN INVESTIGATION OF ENTRY HEATING ON THE 0.0175 SCA LE SPACE SHUTTLE ORBITER (MODEL 60 -0) IN THE AEDC U KF TUNNEL B	MODEL 60-3. VEH. 4	TO INVESTIGATE EN TRY HEATING	HEAT-TRANS	0.0175 / 8.0 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	B. J. HERRERA/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2241 VOLUME 02 JULY, 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - 74A / OH39 CR-160,492	AN INVESTIGATION OF ENTRY HEATING ON THE 0.0175 SCA LE SPACE SHUTTLE ORBITER (MODEL 60 -0) IN THE AEDC U KF TUNNEL B	MODEL 60-3, VEH. 4	TO INVESTIGATE EN TRY HEATING	HEAT-TRANS	0.0175 / 8.0 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	B. J. HERRERA/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2241 VOLUME 03 JULY, 1980
AEDC - HWTB - 74A / OH39 CR-160,493	AN INVESTIGATION OF ENTRY HEATING ON THE 0.0175 SCA LE SPACE SHUTTLE ORBITER (MODEL 60 -0) IN THE AEDC U KF TUNNEL B	MODEL 60-3, VEH. 4	TO INVESTIGATE EN TRY HEATING	HEAT-TRANS	0.0175 / 8.0 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	B. J. HERRERA/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2241 VOLUME 04 JULY, 1980
AEDC - SWTA - A3A / IA111 CR-141,831	AERODYNAMIC RESUL TS OF A SEPARATIO N EFFECTS TEST ON A 0.010-SCALE MO DEL (52-OTS) OF T HE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUP ERSONIC WIND TUNN EL A (IA111)	52-OTS	TO OBTAIN DATA WI TH THE SRB IN PRO XIMITY TO THE O/E T OVER A LARGE O1 ET INITIAL ANGLE OF ATTACK AND SID ESLIP	FORCE	0.010 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	E. CHEE/RI R. BURT/ARO J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2242 VOLUME 01 MARCH, 1976
AEDC - SWTA - A3A / IA111 CR-144,588	AERODYNAMIC RESUL TS OF A SEPARATIO N EFFECTS TEST ON A 0.010-SCALE MO DEL (52-OTS) OF T HE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUP ERSONIC WIND TUNN EL A (IA111)	52-OTS	TO OBTAIN DATA WI TH THE SRB IN PRO XIMITY TO THE O/E T OVER A LARGE O1 ET INITIAL ANGLE OF ATTACK AND SID ESLIP	FORCE	0.010 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	E. CHEE/RI R. BURT/ARO J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2242 VOLUME 02 MARCH, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 14-TWT - 080 / CA23A CR-144,583	RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE ORBITER/747 CARRIER VEHICLE CONFIGURATION TO ESTABLISH A FREE-STREAM DATA BASE FOR ALT SEPARATION INVESTIGATIONS UTILIZING A 0.0125-SCALE MODEL (48-/OAX1318I-1) IN THE ARC 14-FOOT WIND TUNNEL (CA23A)	MODEL 48-0/AX1318I-1 0.0125 SCALE	FORCE AND MOMENT DATA WERE OBTAINED FOR THE CARRIER AND ORBITER SEPARATELY AND MATED FOR PRE-LAUNCH AND FREE AIR DATA BASE FOR PLANNED SEPARATION TESTS OF THE CARRIER ALT CONFIGURATION.	FORCE	0.0125 / 0.3 - 0.7	ROCKWELL/ ARC - 14-FOOT TRANSONIC WIND TUNNEL	J. E. VAUGHN R. H. LINDAHL -DMS	DMS-DR-2243 JAN., 1976
MSFC - 14TWT - 603 / SA28F CR-151,082	AN INVESTIGATION TO DETERMINE THE STATIC PRESSURE DISTRIBUTION OF THE 0.00548 SCALE SPACE SHUTTLE SOLID ROCKET BOOSTER (MSFC MODEL NUMBER 468) DURING REENTRY IN THE NASA/MSFC 14 INCH TRISONIC WIND TUNNEL	146-INCH WITH AND WITHOUT PROTUBERANCES	TO OBTAIN STATIC PRESSURE DISTRIBUTIONS FOR THE SRB AT REENTRY ATTITUDES AND FLIGHT CONDITIONS	PRESSURE	.40 - .45	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	W. F. BRADDOCK, G. D. STREBY/NSI V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2244 AUGUST, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11,97,87- 094 / OA161A/B/C CR-147,618	RESULTS OF AN INVESTIGATION TO DETERMINE LOCAL FLOW CHARACTERISTICS AT THE AIR DATA PROBE LOCATIONS USING AN 0.030-SCALE MODEL (45-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B (MODIFIED) IN THE NASA AMES RESEARCH CENTER UNITARY PLAN WIND TUNNEL ( )	SPACE SHUTTLE VEHICLE ORBITER 140A/B (MODIFIED)	TO DETERMINE LOCAL TOTAL AND STATIC PRESSURE ENVIRONMENTS FOR THE AIR DATA PROBE LOCATIONS AND RELATIVE EFFECTIVENESS OF ALTERNATE FLIGHT TEST PROBE CONFIGURATIONS	FORCE	0.030 / 0.30 - 3.5	ROCKWELL/ ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL	M.R.NICHOLS / R.I. J.C.MONFORT / ARC D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2245 VOLUME 01 SEPT., 1976
ARC - 11,97,87- 094 / OA161A/B/C CR-147,619	RESULTS OF AN INVESTIGATION TO DETERMINE LOCAL FLOW CHARACTERISTICS AT THE AIR DATA PROBE LOCATIONS USING AN 0.030-SCALE MODEL (45-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B (MODIFIED) IN THE NASA AMES RESEARCH CENTER UNITARY PLAN WIND TUNNEL ( )	SPACE SHUTTLE VEHICLE ORBITER 140A/B (MODIFIED)	TO DETERMINE LOCAL TOTAL AND STATIC PRESSURE ENVIRONMENTS FOR THE AIR DATA PROBE LOCATIONS AND RELATIVE EFFECTIVENESS OF ALTERNATE FLIGHT TEST PROBE CONFIGURATIONS	FORCE	0.030 / 0.30 - 3.5	ROCKWELL/ ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL	M.R.NICHOLS / R.I. J.C.MONFORT / ARC D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2245 VOLUME 02 OCT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 12PT - 086 / LA65 CR-144,600	LOW SUBSONIC AERO DYNAMIC CHARACTER ISTICS OF FIVE IR REGULAR PLANFORM WINGS WITH SYSTEM ATICALLY VARYING WING FILLET GEOME TRY TESTED IN THE NASA/AMES 12-FOOT PRESSURE TUNNEL (LA65)	WING-BODY WITH VA RIATIONS	EFFECT OF PLANFOR M ON FORCE + MOME NT CHARACTERISTIC S AS A FUNCTION O F RN/L	FORCE	.08 - .30	LARC / ARC - 12-FOOT PRESSU RE TUNNEL	GEORGE WARE/NASA LANGLEY BERNARD SPENCER/N ASA LANGLEY D.B. WATSON -DMS	DMS-DR-2246 JULY, 1976
AEDC - HWTF - 28A / OA160 CR-141,834	RESULTS OF AN INV ESTIGATION OF HYP ERSONIC VISCOUS I NTERACTION EFFECT S OF THE SPACE SH UTTLE ORBITER USI NG A 0.01/ SCALE MODEL (51-O) IN T HE AEDC-VKF TUNNE L F	MODEL 51-O OF MOD IFIED VEH. 4 ORB. (B26 C9 E26 F7 M 7 N28 R5 V8 W116)	TO DETERMINE HYPE RSONIC VISCOUS IN TERACTION EFFECTS	FORCE	0.010 / 19 - 19	ROCKWELL/ AEDC - HYPERVELOCITY WIND TUNNEL (F)	D. J. ELDER/RI J. E. VAUGHN -DMS	DMS-DR-2247 JAN., 1976
ARC - 3.5HWT - 211 / IH48 CR-144,599	RESULTS OF HEAT T RANSFER TESTS OF A 0.0175-SCALE SP ACE SHUTTLE VEHIC LE 5 MODEL (60-OT S) IN THE NASA-AM ES RESEARCH CENTE R 3.5-FOOT HYPERS ONIC WIND TUNNEL (TEST IH48)	60 OTS SPACE SHUT TLE VEHICLE 5	TO OBTAIN AERODYN AMIC INTERFERENCE HEATING DATA ON THE EXTERNAL TANK IN THE TANK ALONE , SECOND-, AND FI RST-STAGE CONFIGU RATIONS	HEAT-TRANS	0.0175 / 5.2 - 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	W. H. DYE/RI W. K. LOCKMAN/ARC R. B. LOWE -DMS	DMS-DR-2248 APRIL, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN - 48HST - I85-131 / 96HST - IH33 CR-151,775	RESULTS OF SPACE SHUTTLE HEAT TRANSFER TESTS USING A 0.01-SCALE MODEL (37-OT) IN THE CALSPAN HYPERSONIC SHOCK TUNNEL (TEST IH33)	37-OT SPACE SHUTTLE ORBITER/EXTERNAL TANK- .01 SCALE	TO DETERMINE, AT HIGH MACH NUMBERS, (1)AERODYNAMIC HEATING RATES ON THE ORBITER/TANK INTERFACE AND SUPPORT STRUCTURE AND (2)THE HEATING EFFECT OF A BLUNT NOSE CAP ON THE EXTERNAL TANK NOSE SECTION.	HEAT-TRANS	.01 / 5.5- 24.0	ROCKWELL/ CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL 96-INCH HYPERSONIC SHOCK TUNNEL	H.R. BRUESTLE/RI C.E. WITTLIFF/CALSPAN J. E. VAUGHN -DMS	DMS-DR-2249 JUNE, 1979
ARC - 3.5HWT - 182 / OH43 CR-141,539	RESULTS OF CONVECTIVE HEATING TESTS OF A LONGITUDINAL GAP ON THE ROCKWELL FLAT PLATE MODEL (15-O, INSERT VII) IN THE NASA/AMES 3.5 FOOT HYPERSONIC WIND TUNNEL (TEST OH43)	15-O,FLAT PLATE MODEL	TO INVESTIGATE AERODYNAMIC HEATING RATES IN TPS GAPS AT VARIOUS DEPTHS, WIDTHS, LENGTHS, AND ORIENTATIONS TO THE FLOW.	HEAT-TRANS	1.0 / 5.1 - 5.1	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. QUAN/RI W. K. LOCKMAN/ARC M. M. MOSER JR. -DMS	DMS-DR-2250 JULY, 1975
AEDC - HWTB - VA353 / OH9 CR-141,540	RESULTS OF TESTS ON A ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER (-139 CONFIGURATION) 0.0175-SCALE MODEL (NO. 29-O) IN AEDC TUNNEL B TO DETERMINE BOUNDARY LAYER CHARACTERISTICS	MODEL 29-O/VL70-O06139	TO DETERMINE BOUNDARY LAYER CHARACTERISTICS OVER A LOWER SURFACE OF AN ORBITER	HEAT-TRANS	8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	M. QUAN/RI W. MARTINDALE/ARO D. A. SARVER D.B. WATSON -DMS	DMS-DR-2251 JUNE, 1975

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - 83A / OH25A CR-141,546	HEAT TRANSFER PHASE CHANGE PAINT TESTS OF 0.0175-SCALE MODELS (NOS. 21-0 AND 46-0) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER IN THE AEDC TUNNEL B HYPERSONIC WIND TUNNEL (TEST OH25A)	ORB.; 40(SEMISPAN; BODY FLUSH; LEAD. EDGE; TRANSITION;SEMISPAN WING	TO INVESTIGATE PLANFORM AREA REDUCTION CROSSFLOW EFFECTS ON VEHICLE 3 ORBITER CONFIGURATIONS TO SET THE OPTIMUM MODELSIZE FOR LATER TESTS EXAMINING SHOCK-WING LEADING EDGE INTERFERENCE EFFECTS.	HEAT-TRANS	0.0175 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	W. H. DYE/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2252 JULY, 1975
MSFC - 14TWT - 622 / IA125 CR-144,833	AN INVESTIGATION IN THE MSFC TNT TO DETERMINE SPOILER EFFECTS ON WING LOADS AND ELEVON HINGE MOMENTS UTILIZING 0.004-SCALE MODELS (77-0 AND 74-OTS) OF THE SHUTTLE VEHICLE 5 CONFIGURATION	77-0, 77-OTS	TO EVALUATE MID-SPAN ELEVON FLIPPER DOOR (USED AS A SPOILER) EFFECTS ON WING BENDING/TORSION AND ELEVON HINGE MOMENTS DURING LAUNCH	FORCE	0.004 / 0.6 - 2.74	ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	V. W. SPARKS -DMS	DMS-DR-2253 JAN., 1976
ARC - 11TWT - 073 / OA148 OA148P CR-144,619	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 01 JULY, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 073 / OA148 OA148P CR-144,620	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI - . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 02 JULY, 1976
ARC - 11TWT - 073 / OA148 OA148P CR-144,621	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI - . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 03 JULY, 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 073 / OA148 OA148P CR-144,622	TERMINAL AREA ENE RGY MANAGEMENT RE GIME INVESTIGATIO NS UTILIZING AN O .030-SCALE MODEL (47-0) OF THE SPA CE SHUTTLE VEHICL E ORBITER CONFIGU RATION 140A/B/C/R IN THE AMES RESE ARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA1 48)	VEHICLE 5 ORBITER	TO OBTAIN PRESSUR E DISTRIBUTIONS, VEHICLE FORCES AN D MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FL AP AND ELEVON LOA DS IN THE TERMINA L AREA ENERGY MAN AGEMENT (TAEM) AN D APPROACH OF FLI GHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	P.J HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 04 AUGUST, 1976
ARC - 11TWT - 073 / OA148 OA148P CR-144,623	TERMINAL AREA ENE RGY MANAGEMENT RE GIME INVESTIGATIO NS UTILIZING AN O .030-SCALE MODEL (47-0) OF THE SPA CE SHUTTLE VEHICL E ORBITER CONFIGU RATION 140A/B/C/R IN THE AMES RESE ARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA1 48)	VEHICLE 5 ORBITER	TO OBTAIN PRESSUR E DISTRIBUTIONS, VEHICLE FORCES AN D MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FL AP AND ELEVON LOA DS IN THE TERMINA L AREA ENERGY MAN AGEMENT (TAEM) AN D APPROACH OF FLI GHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 05 AUGUST, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	TERMINAL AREA ENE	VEHICLE 5 ORBITER	TO OBTAIN PRESSUR	FORCE	0.030 /	ROCKWELL/	P.J.HAWTHORNE/ RI	DMS-DR-2254
11TWT -	RGY MANAGEMENT RE		E DISTRIBUTIONS,	PRESSURE	0.6 -	ARC -	.	VOLUME 06
073 /	GIME INVESTIGATIO		VEHICLE FORCES AN		1.4	11-FOOT TRANSO	S.L.TREON/	AUGUST, 1976
OA148	NS UTILIZING AN O		D MOMENTS, ELEVON			NIC WIND TUNNE	W. B. MEINDERS	
OA148P	.030-SCALE MODEL		AND RUDDER HINGE			L (UNITARY)	-DMS	
CR-144,624	(47-O) OF THE SPA		MOMENTS, BODY FL					
	CE SHUTTLE VEHICL		AP AND ELEVON LOA					
	E ORBITER CONFIGU		DS IN THE TERMINA					
	RATION 140A/B/C/R		L AREA ENERGY MAN					
	IN THE AMES RESE		AGEMENT (TAEM) AN					
	ARCH CENTER 11 X		D APPROACH OF FLI					
	11 FOOT TRANSONIC		GHT					
	WIND TUNNEL (OA1							
	48)							
ARC -	TERMINAL AREA ENE	VEHICLE 5 ORBITER	TO OBTAIN PRESSUR	FORCE	0.030 /	ROCKWELL/	P.J.HAWTHORNE/ RI	DMS-DR-2254
11TWT -	RGY MANAGEMENT RE		E DISTRIBUTIONS,	PRESSURE	0.6 -	ARC -	.	VOLUME 07
073 /	GIME INVESTIGATIO		VEHICLE FORCES AN		1.4	11-FOOT TRANSO	S.L.TREON/	AUGUST, 1976
OA148	NS UTILIZING AN O		D MOMENTS, ELEVON			NIC WIND TUNNE	W. B. MEINDERS	
OA148P	.030-SCALE MODEL		AND RUDDER HINGE			L (UNITARY)	-DMS	
CR-144,625	(47-O) OF THE SPA		MOMENTS, BODY FL					
	CE SHUTTLE VEHICL		AP AND ELEVON LOA					
	E ORBITER CONFIGU		DS IN THE TERMINA					
	RATION 140A/B/C/R		L AREA ENERGY MAN					
	IN THE AMES RESE		AGEMENT (TAEM) AN					
	ARCH CENTER 11 X		D APPROACH OF FLI					
	11 FOOT TRANSONIC		GHT					
	WIND TUNNEL (OA1							
	48)							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 073 / OA148 OA148P CR-144,626	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN O.030-SCALE MODEL (47-O) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 08 AUGUST, 1976
ARC - 11TWT - 073 / OA148 OA148P CR-144,627	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN .030-SCALE MODEL (47-O) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 09 SEPT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 073 / OA148 OA148P CR-144,628	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 10 SEPT., 1976
ARC - 11TWT - 073 / OA148 OA148P CR-147,601	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE [illegible] ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 11 SEPT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 073 / OA148 OA148P CR-147,602	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN O.030-SCALE MODEL (47-O) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 12 SEPT., 1976
ARC - 11TWT - 073 / OA148 OA148P CR-147,603	TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN O.030-SCALE MODEL (47-O) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS, VEHICLE FORCES AND MOMENTS, ELEVON AND RUDDER HINGE MOMENTS, BODY FLAP AND ELEVON LOADS IN THE TERMINAL AREA ENERGY MANAGEMENT (TAEM) AND APPROACH OF FLIGHT	FORCE PRESSURE	0.030 / 0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	P.J.HAWTHORNE/ RI . S.L.TREON/ W. B. MEINDERS -DMS	DMS-DR-2254 VOLUME 13 SEPT., 1976
ARC - 11TWT - 97SWT - TM-X 62,444	SHADOWGRAPHS OF AIR FLOW OVER PROSPECTIVE SPACE SHUTTLE CONFIGURATIONS AT MACH NUMBERS FROM 0.8 TO 1.4	SERIES-BURN, PARALLEL-BURN; 2 CANOPY CONFIGURATIONS;	TO IDENTIFY AND LOCATE REGIONS OF SIGNIFICANT TURBULENCE	FORCE	4.0 / 0.8 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J. B. DODS,JR., R. D. HANLY, J. H. EFTING/ARC D.W.HERSEY M. M. MOSER JR. -DMS	DMS-DR-2255 JULY, 1975

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC 8TPT 714 LA69 CR-151,369	RESULTS OF A DRAG REDUCTION INVEST IGATION ON AN 0.0 10-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE (72-OTS) LAUNCH CONFIGURA TION TESTED IN TH E LARC 8-FOOT TRA NSONIC PRESSURE T UNNEL FOR THE MAC H RANGE OF 0.35 T O 1.20	OUTER MOLD LINE M ODEL 72-OTS	DETERMINE EFFECTS OF VARIOUS CONFI G. COMPONENTS ON TOTAL DRAG OF VEH . 5: PRIMARY ATTE NTION ON DRAG RED UCTION FOR ET AND MODS TO ORB. AND OMS PODS	FORCE	0.010 / 0.35- 1.20	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	B. SPENCER, JR., G. M. WARE/LARC J. E. VAUGHN -DMS	DMS-DR-2257 SEPT., 1977
ARC 11TWT 072 IA72 CR-151,045	INVESTIGATIONS ON A 0.020-SCALE JE T PLUME MODEL (88 -OTS) OF THE ROCK WELL INTERNATIONA L INTEGRATED SSV CONFIGURATION 14D C (MODIFIED) IN T HE 11-FOOT TRANSO NIC WIND TUNNEL	88-OTS MODIFIED W /OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAI L ROOT BENDING MO MENTS, RUDDER AND ELEVON HINGE MOME NTS, NOZZLE GIMBA L MOMENTS, AND SU RFACE PRESSURE PR OFILES ON THE ORB ITER, ET, SRB; TO DETERMINE ET BAS E COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 01 APRIL, 1977
ARC 11TWT 072 IA72 CR-151,046	INVESTIGATIONS ON A 0.020-SCALE JE T PLUME MODEL (88 -OTS) OF THE ROCK WELL INTERNATIONA L INTEGRATED SSV CONFIGURATION 14D C (MODIFIED) IN T HE 11-FOOT TRANSO NIC WIND TUNNEL	88-OTS MODIFIED W /OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAI L ROOT BENDING MO MENTS, RUDDER AND ELEVON HINGE MOME NTS, NOZZLE GIMBA L MOMENTS, AND SU RFACE PRESSURE PR OFILES ON THE ORB ITER, ET, SRB; TO DETERMINE ET BAS E COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 02 APRIL, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 072 / IA72 CR-151,047	INVESTIGATIONS ON A 0.020-SCALE JET PLUME MODEL (88-OTS) OF THE ROCKWELL INTERNATIONAL INTEGRATED SSV CONFIGURATION 14DC (MODIFIED) IN THE 11-FOOT TRANSONIC WIND TUNNEL	88-OTS MODIFIED W/OMS PODS AND COLD AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAIL ROOT BENDING MOMENTS, RUDDER AND ELEVON HINGE MOMENTS, NOZZLE GIMBAL MOMENTS, AND SURFACE PRESSURE PROFILES ON THE ORBITER, ET, SRB; TO DETERMINE ET BASE COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 03 APRIL, 1977
ARC - 11TWT - 072 / IA72 CR-151,048	INVESTIGATIONS ON A 0.020-SCALE JET PLUME MODEL (88-OTS) OF THE ROCKWELL INTERNATIONAL INTEGRATED SSV CONFIGURATION 14DC (MODIFIED) IN THE 11-FOOT TRANSONIC WIND TUNNEL	88-OTS MODIFIED W/OMS PODS AND COLD AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAIL ROOT BENDING MOMENTS, RUDDER AND ELEVON HINGE MOMENTS, NOZZLE GIMBAL MOMENTS, AND SURFACE PRESSURE PROFILES ON THE ORBITER, ET, SRB; TO DETERMINE ET BASE COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 04 APRIL, 1977
ARC - 11TWT - 072 / IA72 CR-151,049	INVESTIGATIONS ON A 0.020-SCALE JET PLUME MODEL (88-OTS) OF THE ROCKWELL INTERNATIONAL INTEGRATED SSV CONFIGURATION 14DC (MODIFIED) IN THE 11-FOOT TRANSONIC WIND TUNNEL	88-OTS MODIFIED W/OMS PODS AND COLD AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAIL ROOT BENDING MOMENTS, RUDDER AND ELEVON HINGE MOMENTS, NOZZLE GIMBAL MOMENTS, AND SURFACE PRESSURE PROFILES ON THE ORBITER, ET, SRB; TO DETERMINE ET BASE COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 05 APRIL, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 072 / IA72 CR-151,050	INVESTIGATIONS ON A 0.020-SCALE JE T PLUME MODEL (88 -OTS) OF THE ROCK WELL INTERNATIONA L INTEGRATED SSV CONFIGURATION 14D C (MODIFIED) IN T HE 11-FOOT TRANSO NIC WIND TUNNEL	88-OTS MODIFIED W /OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAI L ROOT BENDING MO MENTS, RUDDER AND ELEVON HINGE MOME NTS, NOZZLE GIMBA L MOMENTS, AND SU RFACE PRESSURE PR OFILES ON THE ORB ITER, ET, SRB; TO DETERMINE ET BAS E COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 06 APRIL, 1977
ARC - 11TWT - 072 / IA72 CR-151,051	INVESTIGATIONS ON A 0.020-SCALE JE T PLUME MODEL (88 -OTS) OF THE ROCK WELL INTERNATIONA L INTEGRATED SSV CONFIGURATION 14D C (MODIFIED) IN T HE 11-FOOT TRANSO NIC WIND TUNNEL	88-OTS MODIFIED W /OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAI L ROOT BENDING MO MENTS, RUDDER AND ELEVON HINGE MOME NTS, NOZZLE GIMBA L MOMENTS, AND SU RFACE PRESSURE PR OFILES ON THE ORB ITER, ET, SRB; TO DETERMINE ET BAS E COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 07 APRIL, 1977
ARC - 11TWT - 072 / IA72 CR-151,052	INVESTIGATIONS ON A 0.020-SCALE JE T PLUME MODEL (88 -OTS) OF THE ROCK WELL INTERNATIONA L INTEGRATED SSV CONFIGURATION 14D C (MODIFIED) IN T HE 11-FOOT TRANSO NIC WIND TUNNEL	88-OTS MODIFIED W /OMS PODS AND COL D AIR MPS AND SRB PLUME SIMULATION	TO DETERMINE WING AND VERTICAL TAI L ROOT BENDING MO MENTS, RUDDER AND ELEVON HINGE MOME NTS, NOZZLE GIMBA L MOMENTS, AND SU RFACE PRESSURE PR OFILES ON THE ORB ITER, ET, SRB; TO DETERMINE ET BAS E COOLING RATES.	PRESSURE	0.020 / 0.90 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. H. LINDAHL -DMS	DMS-DR-2258 VOLUME 08 APRIL, 1977

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	INVESTIGATIONS ON	88-OTS MODIFIED W	TO DETERMINE WING	PRESSURE	0.020 /	ROCKWELL/	R. H. LINDAHL	DMS-DR-2258
11TWT -	A 0.020-SCALE JE	/OMS PODS AND COL	AND VERTICAL TAI		0.90 -	ARC -	-DMS	VOLUME 09
072 /	T PLUME MODEL (88	D AIR MPS AND SRB	L ROOT BENDING MO		1.40	11-FOOT TRANSO		APRIL, 1977
IA72	-OTS) OF THE ROCK	PLUME SIMULATION	MENTS, RUDDER AND			NIC WIND TUNNE		
CR-151,053	WELL INTERNATIONA		ELEVON HINGE MOME			L (UNITARY)		
	L INTEGRATED SSV		NTS, NOZZLE GIMBA					
	CONFIGURATION 14D		L MOMENTS, AND SU					
	C (MODIFIED) IN T		RFACE PRESSURE PR					
	HE 11-FOOT TRANSO		OFILES ON THE ORB					
	NIC WIND TUNNEL		ITER, ET, SRB; TO					
			DETERMINE ET BAS					
			E COOLING RATES.					
LARC -		TASK CANCELLED, M		FORCE		LARC /	J. E. VAUGHN	DMS-DR-2259
8TPT -		AY 1977				LARC -	-DMS	TASK
704 /						8-FOOT TRANSON		CANCELLED
LA60A						IC PRESSURE TU		MAY, 1977
						NNEL		
ARC -	RESULTS OF TESTS	ORBITER VEHICLE 1	OBTAIN:(1)BASIC I	FORCE	0.36 /	ROCKWELL/	R.L. MAKI/ARC	DMS-DR-2261
40SWT -	USING A 0.36-SCAL	01 WITHOUT TAILCO	NFLIGHT AERO DATA	PRESSURE	0.112-	ARC -	T.J. DZIUBALA, R.	VOLUME 01
462 /	E MODEL(76-0) OF	NE	WITH SIM.TPS;(2)		0.256	40-FOOT BY 80-	R. BURROWS/RI	JULY, 1982
0A100	THE SPACE SHUTTLE		SUBSONIC VEH.5 AE			FOOT SUBSONIC	S. R. HOULIHAN	
CR-167,364	VEHICLE ORBITER		RO;(3)ELEVON, RUD			WIND TUNNEL	C. R. EDWARDS	
	IN THE NASA/AMES		DER/SPDBRK, AND B				-DMS	
	RESEARCH CENTER 4		ODYFLAP EFFECT. W					
	O BY 80-FOOT SUBS		ITH VEH.101 SEALS					
	ONIC WIND TUNNEL		AND GAPS;(4)RUDD					
	(0A100)		ER/SPDBRK AND BOD					
			YFLAP HINGE MOM.					
			WITH SEALS;(5)FLI					
			GHT TEST AND SIDE					
			AIR DATA PROBE C					
			ALIB;(6)EVALUATE					
			RN EFFECTS.					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 40SWT - 462 / OA100 CR-167,365	RESULTS OF TESTS USING A 0.36-SCALE MODEL(76-0) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE NASA/AMES RESEARCH CENTER 40 BY 80-FOOT SUBSONIC WIND TUNNEL (OA100)	ORBITER VEHICLE 101 WITHOUT TAILCONE	OBTAIN:(1)BASIC INFLIGHT AERO DATA WITH SIM.TPS;(2) SUBSONIC VEH.5 AERO;(3)ELEVON, RUDDER/SPDBRK, AND BODYFLAP EFFECT. WITH VEH.101 SEALS AND GAPS;(4)RUDDER/SPDBRK AND BODYFLAP HINGE MOM. WITH SEALS;(5)FLIGHT TEST AND SIDE AIR DATA PROBE CALIB;(6)EVALUATE RN EFFECTS.	FORCE PRESSURE	0.36 / 0.112 - 0.256	ROCKWELL/ ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND TUNNEL	R.L. MAKI/ARC T.J. DZIUBALA, R. R. BURROWS/RI S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2261 VOLUME 02 JULY, 1982
TBCA - BTWT - 1472 / CA6 CR-147,630	RESULTS OF A CARRIER AIRCRAFT VERIFICATION TEST IN THE BOEING 8 X 12 FOOT TRANSONIC TUNNEL USING A 0.03-SCALE 747 CAM/ORBITER MODEL 45-0	CARRIER W/ ORB. ALONE, CARRIER ALONE, MATED 747/ORBITER	TO OBTAIN FORCE AND MOMENT DATA ON EACH VEHICLE, MATED AND SEPARATED; TO INVESTIGATE EFFECTS OF ORBITER INCIDENCE, TAILCONE, STRUT FAIRINGS, ELEVON, AND BODY FLAP SETTINGS	FORCE	0.03 / 0.3 - 0.7	ROCKWELL/ TBCA - TRANSONIC WIND TUNNEL	J. R. CORNELIUS, A. R. WOLFLA/TBC D. A. SARVER J. E. VAUGHN -DMS	DMS-DR-2262 VOLUME 01 NOV., 1976
TBCA - BTWT - 1472 / CA6 CR-147,631	RESULTS OF A CARRIER AIRCRAFT VERIFICATION TEST IN THE BOEING 8 X 12 FOOT TRANSONIC TUNNEL USING A 0.03-SCALE 747 CAM/ORBITER MODEL 45-0	CARRIER W/ ORB. ALONE, CARRIER ALONE, MATED 747/ORBITER	TO OBTAIN FORCE AND MOMENT DATA ON EACH VEHICLE, MATED AND SEPARATED; TO INVESTIGATE EFFECTS OF ORBITER INCIDENCE, TAILCONE, STRUT FAIRINGS, ELEVON, AND BODY FLAP SETTINGS	FORCE	0.03 / 0.3 - 0.7	ROCKWELL/ TBCA - TRANSONIC WIND TUNNEL	J. R. CORNELIUS, A. R. WOLFLA/TBC D. A. SARVER J. E. VAUGHN -DMS	DMS-DR-2262 VOLUME 02 NOV., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF HEAT T	140 C ORB (B62 C1	TO DETERMINE ENTR	HEAT-TRANS	0.0175 /	ROCKWELL/	E. C. ALLEN, W. H	DMS-DR-2263
HWTB -	RANSFER TESTS ON	2 E52 F10 M16 R19	Y AERODYNAMIC HEA		8.0 -	AEDC -	. DYE/RI	MARCH, 1976
B8A /	A 0.0175-SCALE SP	V8 W127)	TING RATES ON ORB		8.0	HYPERSONIC WIN	E. KNOX/AEDC	
OH74	ACE SHUTTLE ORBIT		. FUSELAGE SIDE			D TUNNEL (B)	R. H. LINDAHL	
CR-144,596	ER MODEL (56-O) I						-DMS	
	N THE AEDC VKF 'B							
	' HYPERSONIC WIND							
	TUNNEL (OH74)							
LARC -	TRANSONIC STABILI	SSV ORBITER 49-O	TO GENERATE A DET	FORCE	0.35 -	LARC /	J. GAMBLE, M. BUH	DMS-DR-2264
8TPT -	TY AND CONTROL CH	MODIFIED	AILED AERODYNAMIC		1.20	LARC -	L, JR./JSC; B. SP	DEC., 1975
717 /	ARACTERISTICS OF		BASE TO SUBSTANT			8-FOOT TRANSON	ENCER, G. WARE/LA	
LA62	A 0.015-SCALE (RE		IATE THE DESIGN D			IC PRESSURE TU	RC	
CR-141,843	MOTELY CONTROLLED		ATA ON THE CURREN			NNEL	H. PARRELL/RI	
	ELEVON) MODEL 49		T ORBITER CONFIGU				J. W. BALL	
	-O OF THE SPACE S		RATION				M. M. MANN	
	HUTTLE ORBITER TE						-DMS	
	STED IN THE NASA/							
	LARC 8-FOOT TPT (							
	LA62)							
ARC -	RESULTS OF TESTS	CONFIG 1 ORBITER	ASSESS EFFECTS OF	FORCE	.030 /	ROCKWELL/	J. J. MARROQUIN/R	DMS-DR-2265
12PT -	USING A 0.030-SCA	WITH NOSE AND TAI	RCS ORIFICES LOC		0.26 -	ARC -	I	JAN., 1976
078 /	LE MODEL (45-O) O	L RCS JETS	ATED ON ORBITER N		0.26	12-FOOT PRESSU	D.B. WATSON	
OA159	F THE SPACE SHUTT	CONFIG 2 ORBITER	OSE, EFFECTS OF M			RE TUNNEL	-DMS	
CR-141,832	LE VEHICLE ORBITE	WITH AFT CARRIER	ODIFIED OMS PODS					
	R IN THE NASA/ARC	ATTACHMENT	AND MODIFIED ELEV					
	12-FOOT PRESSURE	CONFIG 3 ORBITER	ONS ON THE 6-COMP					
	TUNNEL (OA159)	WITH GROUND PLANE	ONENT FORCE DATA.					
		CONFIG 4 ORBITER						
		WITH SIMULATED BA						
		LANCE SUPPORTS US						
		ED IN AMES 40X80						

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LTV - HSWT - 552 / LA67 CR-144,607	TRANSONIC-SUPERSONIC HIGH REYNOLDS NUMBER STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-0 OF THE SPACE SHUTTLE ORBITER TESTED IN THE VSD HIGH SPEED WIND TUNNEL	140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	TO GENERATE A DETAILED AERODYNAMIC DATA BASE WHICH CAN BE USED TO SUBSTANTIATE THE AERODYNAMIC DATA DESIGN DATA BOOK FOR THE CURRENT ORBITER DESIGN.	FORCE	0.015 / 0.6 - 4.6	LARC / LTV - HIGH SPEED WIND TUNNEL	G. WARE, B. SPENCER, JR./LARC T. C. POPE/VSD J. E. VAUGHN -DMS	DMS-DR-2266 JULY, 1976
LARC - CFHT - 118 / MA22 CR-147,604	RESULTS OF TEST MA22 IN THE NASA/LARC 31-INCH CFHT ON AN 0.010-SCALE MODEL (32-0) OF THE SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE RCS JET FLOW FIELD INTERACTION AND TO, INVESTIGATE RT REAL GAS EFFECTS	REACTION CONTROL SYSTEM	TO STUDY TUNNEL REPEATABILITY AND EFFECT ON JET INTERACTION DATA, TO DETERMINE EFFECTS OF MODEL HEATING, ELEVON, BODYFLAP DEFLECTIONS ON JET INTERACTION, STUDY MULTIPLE JET FIRING EFFECTS, INVESTIGATE AREA RATIO EFFECTS, STUDY SUPER POSITION EFFECTS	FORCE	0.0100 / 10.3 - 10.3	MSC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D.B. KANIPE/JSC J. W. BALL G. W. KLUG -DMS	DMS-DR-2267 VOLUME 01 JUNE, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC-CFHT-118 / MA22 CR-147,605	RESULTS OF TEST MA22 IN THE NASA/LARC 31-INCH CFHT ON AN 0.010-SCALE MODEL (32-O) OF THE SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE RCS JET FLOW FIELD INTERACTION AND TO INVESTIGATE RT REAL GAS EFFECTS	REACTION CONTROL SYSTEM	TO STUDY TUNNEL REPEATABILITY AND EFFECT ON JET INTERACTION DATA, TO DETERMINE EFFECTS OF MODEL HEATING, ELEVON, BODYFLAP DEFLECTIONS ON JET INTERACTION, STUDY MULTIPLE JET FIRING EFFECTS, INVESTIGATE AREA RATIO EFFECTS, STUDY SUPER POSITION EFFECTS	FORCE	0.0100 / 10.3 - 10.3	MSC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D.B. KANIPE/JSC J. W. BALL G. W. KLUG-DMS	DMS-DR-2267 VOLUME 02 JUNE, 1976
LARC-CFHT-118 / MA22 CR-147,606	RESULTS OF TEST MA22 IN THE NASA/LARC 31-INCH CFHT ON AN 0.010-SCALE MODEL (32-O) OF THE SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE RCS JET FLOW FIELD INTERACTION AND TO INVESTIGATE RT REAL GAS EFFECTS	REACTION CONTROL SYSTEM	TO STUDY TUNNEL REPEATABILITY AND EFFECT ON JET INTERACTION DATA, TO DETERMINE EFFECTS OF MODEL HEATING, ELEVON, BODYFLAP DEFLECTIONS ON JET INTERACTION, STUDY MULTIPLE JET FIRING EFFECTS, INVESTIGATE AREA RATIO EFFECTS, STUDY SUPER POSITION EFFECTS	FORCE	0.0100 / 10.3 - 10.3	MSC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	D.B. KANIPE/JSC J. W. BALL G. W. KLUG-DMS	DMS-DR-2267 VOLUME 03 JUNE, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	RESULTS OF TEST M	REACTION CONTROL	TO STUDY TUNNEL R	FORCE	0.0100 /	MSC /	D.B. KANIPE/JSC	DMS-DR-2267
CFHT -	A22 IN THE NASA/L	SYSTEM	EPEATABILITY AND		10.3 -	LARC -	J. W. BALL	VOLUME 04
118 /	ARC 31-INCH CFHT		EFFECT ON JET INT		10.3	CONTINUOUS-FLO	G. W. KLUG	JUNE, 1976
MA22	ON AN 0.010-SCALE		ERACTION DATA, TO			W HYPERSONIC T	-DMS	
CR-147,607	MODEL (32-O) OF T		DETERMINE EFFECTS			UNNEL		
	HE SPACE SHUTTLE		OF MODEL HEATING					
	CONFIGURATION 3 T		, ELEVON, BODYFLA					
	O DETERMINE RCS		P DEFLECTIONS ON					
	JET FLOW FIELD IN		JET INTERACTION,					
	TERACTION AND TO		STUDY MULTIPLE JE					
	INVESTIGATE RT RE		T FIRING EFFECTS,					
	AL GAS EFFECTS		INVESTIGATE AREA					
			RATIO EFFECTS, ST					
			UDY SUPER POSITIO					
			N EFFECTS					
TBCA -	RESULTS OF AN INV	BOEING AX1319P-1	SIX-COMPONENT FOR	FORCE	0.03 ,	ROCKWELL/	W.R. COVINGTON/BO	DMS-DR-2268
BTWT -	ESTIGATION OF AER	CARRIER	CE AND MOMENT DAT	PRESSURE	0.03 /	TBCA -	EING, H.SEXTON,H.	VOLUME 01
1477 /	ODYNAMIC FORCES,	ORBITER 47-O	A WERE MEASURED O		0.4 -	TRANSONIC WIND	S.LUTFI,S.L. OLLM	JUNE, 1979
CA9	MOMENTS, AND PRES		N THE TOTAL VEHIC		0.70	TUNNEL	ANN/RI	
CA9P	SURES ON 0.03-SCA		LE AND ON THE ORB				R. H. LINDAHL	
CR-151,396	LE MODELS OF THE		ITER TAILCONE. TH				-DMS	
	MATED SPACE SHUTT		REE-COMPONENT FOR					
	LE ORBITER AND CA		CE AND MOMENT DAT					
	RRIER AIRCRAFT (M		A WERE MEASURED O					
	ODEL NUMBERS AX13		N THE CARRIER RIG					
	19P-1 AND 47-O) I		HT TIP FIN, ORBIT					
	N THE BOEING TRAN		ER ELEVON HINGE M					
	SONIC WIND TUNNEL		OMENTS WERE ALSO					
	(CA9)		MEASURED.					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
TBCA - BTWT - 1477 / CA9 CA9P CR-151,397	RESULTS OF AN INVESTIGATION OF AERODYNAMIC FORCES, MOMENTS, AND PRESSURES ON 0.03-SCALE MODELS OF THE MATED SPACE SHUTTLE ORBITER AND CARRIER AIRCRAFT (MODEL NUMBERS AX1319P-1 AND 47-0) IN THE BOEING TRANSONIC WIND TUNNEL (CA9)	BOEING AX1319P-1 CARRIER ORBITER 47-0	SIX-COMPONENT FORCE AND MOMENT DATA WERE MEASURED ON THE TOTAL VEHICLE AND ON THE ORBITER TAILCONE. THREE-COMPONENT FORCE AND MOMENT DATA WERE MEASURED ON THE CARRIER RIGHT TIP FIN. ORBITER ELEVON HINGE MOMENTS WERE ALSO MEASURED.	FORCE PRESSURE	0.03 , 0.03 / 0.4 - 0.70	ROCKWELL/ TBCA - TRANSONIC WIND TUNNEL	W.R. COVINGTON/BOEING, H.SEXTON,H.S.LUTFI,S.L. OLLMANN/RI R. H. LINDAHL-DMS	DMS-DR-2268 VOLUME 02 JUNE, 1979
TBCA - BTWT - 1477 / CA9 CA9P CR-151,398	RESULTS OF AN INVESTIGATION OF AERODYNAMIC FORCES, MOMENTS, AND PRESSURES ON 0.03-SCALE MODELS OF THE MATED SPACE SHUTTLE ORBITER AND CARRIER AIRCRAFT (MODEL NUMBERS AX1319P-1 AND 47-0) IN THE BOEING TRANSONIC WIND TUNNEL (CA9)	BOEING AX1319P-1 CARRIER ORBITER 47-0	SIX-COMPONENT FORCE AND MOMENT DATA WERE MEASURED ON THE TOTAL VEHICLE AND ON THE ORBITER TAILCONE. THREE-COMPONENT FORCE AND MOMENT DATA WERE MEASURED ON THE CARRIER RIGHT TIP FIN. ORBITER ELEVON HINGE MOMENTS WERE ALSO MEASURED.	FORCE PRESSURE	0.03 , 0.03 / 0.4 - 0.70	ROCKWELL/ TBCA - TRANSONIC WIND TUNNEL	W.R. COVINGTON/BOEING, H.SEXTON,H.S.LUTFI,S.L. OLLMANN/RI R. H. LINDAHL-DMS	DMS-DR-2268 VOLUME 03 JUNE, 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
TBCA -	RESULTS OF AN INV	BOEING AX1319P-1	SIX-COMPONENT FOR	FORCE	0.03 ,	ROCKWELL/	W.R. COVINGTON/BO	DMS-DR-2268
BTWT -	ESTIGATION OF AER	CARRIER	CE AND MOMENT DAT	PRESSURE	0.03 /	TBCA -	EING, H.SEXTON,H.	VOLUME 04
1477 /	ODYNAMIC FORCES,	ORBITER 47-0	A WERE MEASURED O		0.4 -	TRANSONIC WIND	S.LUTFI,S.L. OLLM	JUNE, 1979
CA9	MOMENTS, AND PRES		N THE TOTAL VEHIC		0.70	TUNNEL	ANN/RI	
CA9P	SURES ON 0.03-SCA		LE AND ON THE ORB				R. H. LINDAHL	
CR-151,399	LE OODELS OF THE		ITER TAILCONE. TH				-DMS	
	MATED SPACE SHUTT		REE-COMPONENT FOR					
	LE ORBITER AND CA		CE AND MOMENT DAT					
	RRIER AIRCRAFT (M		A WERE MEASURED O					
	ODEL NUMBERS AX13		N THE CARRIER RIG					
	19P-1 AND 47-O) I		HT TIP FIN. ORBIT					
	N THE BOEING TRAN		ER ELEVON HINGE M					
	SONIC WIND TUNNEL		OMENTS WERE ALSO					
	(CA9)		MEASURED.					
TBCA -	RESULTS OF AN INV	BOEING AX1319P-1	SIX-COMPONENT FOR	FORCE	0.03 ,	ROCKWELL/	W.R. COVINGTON/BO	DMS-DR-2268
BTWT -	ESTIGATION OF AER	CARRIER	CE AND MOMENT DAT	PRESSURE	0.03 /	TBCA -	EING, H.SEXTON,H.	VOLUME 05
1477 /	ODYNAMIC FORCES,	ORBITER 47-0	A WERE MEASURED O		0.4 -	TRANSONIC WIND	S.LUTFI,S.L. OLLM	JUNE, 1979
CA9	MOMENTS, AND PRES		N THE TOTAL VEHIC		0.70	TUNNEL	ANN/RI	
CA9P	SURES ON 0.03-SCA		LE AND ON THE ORB				R. H. LINDAHL	
CR-151,400	LE MODELS OF THE		ITER TAILCONE. TH				-DMS	
	MATED SPACE SHUTT		REE-COMPONENT FOR					
	LE ORBITER AND CA		CE AND MOMENT DAT					
	RRIER AIRCRAFT (M		A WERE MEASURED O					
	ODEL NUMBERS AX13		N THE CARRIER RIG					
	19P-1 AND 47-O) I		HT TIP FIN. ORBIT					
	N THE BOEING TRAN		ER ELEVON HINGE M					
	SONIC WIND TUNNEL		OMENTS WERE ALSO					
	(CA9)		MEASURED.					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN - 8TWT - T18-103 / LA70 CR-147,624	TRANSONIC HIGH REYNOLDS NUMBER STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON MODEL (44-0) OF THE SPACE SHUTTLE ORBITER TESTED IN THE CALSPAN 8-FOOT TWT	140A/B/C=B26 C9 E43 F8 M16 N28 R5 V8 W	TO OBTAIN BASIC SHUTTLE AERO DATA THROUGH A FULL RANGE OF ELEVON AND AILERON DEFLECTIONS, VERIFICATION OF DATA OBTAINED AT OTHER FACILITIES, AND EFFECTS OF REYNOLDS NUMBER	FORCE	0.015 / .35 - 1.20	LARC / CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL	H. PARRELL/RI . J. D. GAMBLE/JSC R. H. LINDAHL -DMS	DMS-DR-2269 SEPT., 1976
LARC - UPWT - 1118 / LA63A CR-144,579	LOW SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON MODEL (49-0) OF THE SPACE SHUTTLE ORBITER (LA63A)	ORBITER W/ INDEPENDENTLY-OPERATED LEFT,RIGHT ELEVON SURFACES	TO GENERATE A DETAILED AERODYNAMIC DATA BASE FOR THE CURRENT ORBITER CONFIGURATION	FORCE	0.015 / 1.5 - 2.0	LARC / LARC - UNITARY PLAN WIND TUNNEL	J. D. GAMBLE/JSC	DMS-DR-2270 DEC., 1975
LARC - UPWT - 1147 / 1132 / LA71A/B CR-151,044	SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015 SCALE MODEL 69-0 OF THE SPACE SHUTTLE ORBITER WITH FOREBODY RSI MODIFICATIONS IN THE NASA/LARC 4-FOOT UPWT (LEGS 1 AN) 2)	MODEL 69-0 WITH FOREBODY RSI MODS	TO DETERMINE SUPERSONIC AERODYNAMICS EFFECTS OF RSI REDUCTION ON FOREBODY	FORCE	0.015 / 1.5 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	W. P. PHILLIPS/LARC J. E. VAUGHN D.B. WATSON -DMS	DMS-DR-2271 FEB., 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - C4A / IA114 CR-151,077	RESULTS OF AN INVESTIGATION OF EXTERNAL TANK SEPARATION EFFECTS USING AN 0.010-SCALE MODEL (52-OT) SPACE SHUTTLE VEHICLE IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER VON KARMAN FACILITY TUNNEL B	SSV 3	TO INVESTIGATE AERODYNAMIC INTERACTIONS BETWEEN ET AND ORBITER DURING RTLS ABORT SEPARATION	FORCE	0.010 / 5.93 -	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	E. CHEE, J. DAILEDA/JSC J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2272 VOLUME 01 JUNE, 1977
AEDC - HWTB - C4A / IA114 CR-151,078	RESULTS OF AN INVESTIGATION OF EXTERNAL TANK SEPARATION EFFECTS USING AN 0.010-SCALE MODEL (52-OT) SPACE SHUTTLE VEHICLE IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER VON KARMAN FACILITY TUNNEL B	SSV 3	TO INVESTIGATE AERODYNAMIC INTERACTIONS BETWEEN ET AND ORBITER DURING RTLS ABORT SEPARATION	FORCE	0.010 / 5.93 -	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	E. CHEE, J. DAILEDA/JSC J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2272 VOLUME 02 JUNE, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LTV - HSWT - 559 / CA26 CR-144,612	RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS UTILIZING 0.0125-SCALE MODELS (48-O/AX1318I-1) IN THE LTV 4X4-FOOT HIGH SPEED WIND TUNNEL (CA26)	AX1318I-1, 747/1, 747/4 48-O (02, 04, 06, S1, ATY, ATX)	TO PRESENT THE PROXIMITY EFFECTS OF EACH VEHICLE ON THE OTHER AT SEPARATION DISTANCES (FROM THE MATED CONFIGURATION) RANGING FROM 1.5 FEET TO 75 FEET.	FORCE PRESSURE	0.0125 / 0.3 - 0.7	ROCKWELL/ LTV - HIGH SPEED WIND TUNNEL	R.L. GILLINS, V.E. SPARZA/RI CARL ZIEGLER/GAS DYNAMICS LAB D. A. SARVER G. W. KLUG -DMS	DMS-DR-2273 VOLUME 01 MAY, 1976
LTV - HSWT - 559 / CA26 CR-144,613	RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS UTILIZING 0.0125-SCALE MODELS (48-O/AX1318I-1) IN THE LTV 4X4-FOOT HIGH SPEED WIND TUNNEL (CA26)	AX1318I-1, 747/1, 747/4 48-O (02, 04, 06, S1, ATY, ATX)	TO PRESENT THE PROXIMITY EFFECTS OF EACH VEHICLE ON THE OTHER AT SEPARATION DISTANCES (FROM THE MATED CONFIGURATION) RANGING FROM 1.5 FEET TO 75 FEET.	FORCE PRESSURE	0.0125 / 0.3 - 0.7	ROCKWELL/ LTV - HIGH SPEED WIND TUNNEL	R.L. GILLINS, V.E. SPARZA/RI CARL ZIEGLER/GAS DYNAMICS LAB D. A. SARVER G. W. KLUG -DMS	DMS-DR-2273 VOLUME 02 JUNE, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LTV - HSWT - 559 / CA26 CR-144,614	RESULTS OF AN AER ODYNAMIC INVESTIG ATION OF A SPACE SHUTTLE ORBITER/7 47 CARRIER FLIGHT TEST CONFIGURATI ON TO DETERMINE S EPARATION CHARACT ERISTICS UTILIZI NG 0.0125-SCALE M ODELS (48-O/AX131 8I-1) IN THE LTV 4X4-FOOT HIGH SPE ED WIND TUNNEL (C A26)	AX1318I-1, 747/1, 747/4 48-O (O2, O4, O6, S1, ATY, ATX)	TO PRESENT THE PR OXIMITY EFFECTS O F EACH VEHICLE ON THE OTHER AT SEP ARATION DISTANCES (FROM THE MATED CONFIGURATION) RA NGING FROM 1.5 FE ET TO 75 FEET.	FORCE PRESSURE	0.0125 / 0.3 - 0.7	ROCKWELL/ LTV - HIGH SPEED WIN D TUNNEL	R L. GILLINS, V.E SPARZA/RI CARL ZIEGLER/GAS DYNAMICS LAB D. A. SARVER G. W. KLUG -DMS	DMS-DR-2273 VOLUME 03 JUNE, 1976
LTV - HSWT - 559 / CA26 CR-144,615	RESULTS OF AN AER ODYNAMIC INVESTIG ATION OF A SPACE SHUTTLE ORBITER/7 47 CARRIER FLIGHT TEST CONFIGURATI ON TO DETERMINE S EPARATION CHARACT ERISTICS UTILIZI NG 0.0125-SCALE M ODELS (48-O/AX131 8I-1) IN THE LTV 4X4-FOOT HIGH SPE ED WIND TUNNEL (C A26)	AX1318I-1, 747/1, 747/4 48-O (O2, O4, O6, S1, ATY, ATX)	TO PRESENT THE PR OXIMITY EFFECTS O F EACH VEHICLE ON THE OTHER AT SEP ARATION DISTANCES (FROM THE MATED CONFIGURATION) RA NGING FROM 1.5 FE ET TO 75 FEET.	FORCE PRESSURE	0.0125 / 0.3 - 0.7	ROCKWELL/ LTV - HIGH SPEED WIN D TUNNEL	R.L. GILLINS, V.E SPARZA/RI CARL ZIEGLER/GAS DYNAMICS LAB D. A. SARVER G. W. KLUG -DMS	DMS-DR-2273 VOLUME 04 JUNE, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LTV - HSWT - 559 / CA26 CR-144,616	RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS UTILIZING 0.0125-SCALE MODELS (48-O/AX1318I-1) IN THE LTV 4X4-FOOT HIGH SPEED WIND TUNNEL (CA26)	AX1318I-1, 747/1, 747/4, 48-O (02, 04, 06, S1, ATV, ATX)	TO PRESENT THE PROXIMITY EFFECTS OF EACH VEHICLE ON THE OTHER AT SEPARATION DISTANCES (FROM THE MATED CONFIGURATION) RANGING FROM 1.5 FEET TO 75 FEET.	FORCE PRESSURE	0.0125 / 0.3 - 0.7	ROCKWELL/ LTV - HIGH SPEED WIND TUNNEL	R.L. GILLINS, V.ESPARZA/RI CARL ZIEGLER/GAS DYNAMICS LAB D. A. SARVER G. W. KLUG -DMS	DMS-DR-2273 VOLUME 05 JUNE, 1976
MSFC - 14TWT - 600 / FA14 CR-144,593	AN INVESTIGATION OF DRAG REDUCTION FAIRINGS ON THE SPACE SHUTTLE VEHICLE 5 CONFIGURATION (MODEL 74-OTS) IN THE MSFC 14-INCH TRISONIC WIND TUNNEL	74-OTS, VEH. 5 (ASCENT CONFIG.)	TO DETERMINE STATIC STABILITY AND DRAG ON A 0.004-SCALE MODEL OF THE SHUTTLE AS CENT CONFIGURATION	FORCE	0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. E. RAMSEY/MSFC V. W. SPARKS V. W. SPARKS -DMS	DMS-DR-2274 FEB., 1976
ARC - 14-TWT - [illegible] / CA23B CR-144,603	RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE SEPARATION CHARACTERISTICS FOR THE ORBITER/747 USING A 0.0125-SCALE MODEL (48-O AX1318I-1 747) IN THE AMES RESEARCH CENTER 14-FOOT WIND TUNNEL (CA23B)	0.0125-SCALE SSV ORBITER 0.0125-SCALE 747 MODEL	LONGITUDINAL, LATERAL AND NORMAL SEPARATION INCREMENTS WERE OBTAINED FOR FIXED 747 ANGLES OF ATTACK OF 0,2,4 DEGREES WHILE VARYING ORBITER ANGLE OF ATTACK	FORCE	0.0125 / 0.3 - 0.6	ROCKWELL/ ARC - 14-FOOT TRANSONIC WIND TUNNEL	V. ESPARZA,RI,J. BROWNSON,D. PENA, ARC R. H. LINDAHL -DMS	DMS-DR-2275 VOLUME 01 MAY, 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 14-TWT - 120 / CA23B CR-144,604	RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE SEPARATION CHARACTERISTICS FOR THE ORBITER/747 USING A 0.0125-SCALE MODEL (48-0 AX1318I-1 747) IN THE AMES RESEARCH CENTER 14-FOOT WIND TUNNEL (CA23B)	0.0125-SCALE SSV ORBITER 0.0125-SCALE 747 MODEL	LONGITUDINAL, LATERAL AND NORMAL SEPARATION INCREMENTS WERE OBTAINED FOR FIXED 747 ANGLES OF ATTACK OF 0,2,4 DEGREES WHILE VARYING ORBITER ANGLE OF ATTACK	FORCE	0.0125 / .3 - .6	ROCKWELL/ ARC - 14-FOOT TRANSONIC WIND TUNNEL	V. ESPARZA,RI,J. BROWNSON,D. PENA,ARC R. H. LINDAHL -DMS	DMS-DR-2275 VOLUME 02 MAY, 1976
AEDC - SWTA - E1A / FH13 CR-151,055	HEAT TRANSFER AND SURFACE PRESSURE DATA OBTAINED ON A .0429 SCALE MODEL SSV EXTERNAL TANK NOSE SECTION AT MACH NUMBERS FROM 2.5 TO 5.5 (FH13)	40-DEG NOSE-CLEAN (NO PROTUBERANCES) DOUBLE CONE(10-DEG-40-DEG)(NO PROTUBERANCES) DOUBLE CONE WITH PROTUBERANCES	DETERMINE THE INFLUENCE OF A NEW VENT CAP/LIGHTNING ROD CONFIGURATION WHICH FORMS THE NOSE TIP ON THE SHUTTLE EXTERNAL TANK.	HEAT-TRANS	2.5 - 5.5	MSFC / AEDC - SUPERSONIC WIND TUNNEL (A)	H. R. CARROLL/MMC J. E. VAUGHN M. M. MANN -DMS	DMS-DR-2276 JUNE, 1977
MSFC - HRWT - 034 / SA13F CR-144,579	FORCE TEST OF A 0.88 PERCENT SCALE 142-INCH DIAMETER SOLID ROCKET BOOSTER (MSFC MODEL NUMBER 461) IN THE NASA/MSFC HIGH REYNOLDS NUMBER WIND TUNNEL	MODEL 461, 142-INCH DIA. WITHOUT PROTUBERANCES	TO OBTAIN AERODYNAMIC FORCE DATA OVER A LARGE RANGE OF REYNOLDS NUMBERS	FORCE	0.88 / 0.6 - 0.7	MSFC / MSFC - HIGH REYNOLDS NUMBER WIND TUNNEL	J. D. JOHNSON/MSFC G. W. WINKLER/NSI V. W. SPARKS -DMS	DMS-DR-2277 JULY, 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	LOW-SUBSONIC STAB	TEST CANCELLED, M	TEST CANCELLED, M	FORCE	0.015 /	LARC /	B. SPENCER, JR./L	DMS-DR-2278
LTPT -	ILITY AND CONTROL	AY 1976	AY 1976		0.06 -	LARC -	ARC	TASK
219 /	CHARACTERISTICS				0.30	LOW-TURBULENCE	G. WARE/LARC	CANCELLED
LA61	OF A 0.010-SCALE					PRESSURE TUNN		MAY, 1976
	REMOTELY CONTROLL					EL		
	ED ELEVON MODEL (							
	49-0) OF THE SPAC							
	E SHUTTLE ORBITER							
	IN THE LANGLEY R							
	ESEARCH CENTER LO							
	W TURBULENCE PRES							
	SURE TUNNEL							
LARC -	HIGH SUPERSONIC S	140A/B/C (B26 C9	TO GENERATE A DET	FORCE	2.86 -	LARC /	B. SPENCER, JR.,	DMS-DR-2279
UPWT -	TABILITY AND CONT	E43 F8 M16 N28 R5	AILED AERODYNAMIC		4.60	LARC -	G. WARE, R. FOURN	JUNE, 1976
1151 /	ROL CHARACTERISTI	V8 W)	DATA BASE FOR CU			UNITARY PLAN W	IER/LARC	
LA63B	CS OF A 0.015-SCA		RRENT SS ORB. CON			IND TUNNEL	J. GAMBLE/JSC	
CR-144,606	LE (REMOTELY CONT		F.				J. W. BALL	
	ROLLED ELEVON) MO						J. E. VAUGHN	
	DEL 49-0 OF THE S						-DMS	
	PACE SHUTTLE ORBI							
	TER TESTED IN THE							
	NASA/LARC 4-FOOT							
	UPWT(LEG 2)							
LTV -	HEAT-FLUX GAGE ME	FLAT-PLATE MODEL	TO DETERMINE FEAS	HEAT-TRANS	1.0 /	LARC /	B. SPENCER, JR.,	DMS-DR-2280
HSWT -	ASUREMENTS ON A F	WITH THIN-FILM H	IBILITY OF USING		4.6 -	LTV -	R. L. STALLINGS /	JAN., 1976
498 /	LAT PLATE AT A MA	EAT FLUX GAGES	THIN-FILM HEAT-FL		4.6	HIGH SPEED WIN	LARC	
LA28	CH NUMBER OF 4.6		UX GAGES TO DEFIN			D TUNNEL	T. C. POPE / LTV	
CR-144,582	IN THE VSD HIGH S		E BOUNDARY LAYER				J. W. BALL	
	PEED WIND TUNNEL-		CHARACTERISTICS A				M. M. MOSER JR.	
	-A FEASIBILITY TE		T SUPERSONIC SPEE				-DMS	
	ST (LA28)		DS					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 12PT - 135-1 / LA66 CR-147,621	SUBSONIC STABILIT Y AND CONTROL CHA RACTERISTICS OF A 0.015-SCALE (REM OTELY CONTROLLED ELEVON) MODEL 44- O OF THE SPACE SH UTTLE ORBITER TES TED IN THE NASA/A RC 12-FOOT PRESSU RE TUNNEL (LA66)	BASELINE	DEFINE NON-LINEAR AERODYNAMIC CHAR ACTERISTICS UTILI ZING SMALL INCREM ENTS IN ALPHA, BE TA, AND ELEVON	FORCE	0.015 / 0.22 - 0.29	LARC / ARC - 12-FOOT PRESSU RE TUNNEL	J.M. UNDERWOOD/JS C H. PARRELL/ROCKWE LL INTERNATIONAL D.B. WATSON -DMS	DMS-DR-2281 SEPT., 1976
LERC - 10SWT - 038 / IH34 CR-151,407	BASE PRESSURE AND HEAT TRANSFER TE STS OF THE 0.0225 -SCALE SPACE SHUT TLE PLUME SIMULAT ION MODEL 19-OTS IN THE NASA-LEWIS 10X10 FOOT SWT	PLUME SIMULATION MODEL 19-OTS	OBTAIN BASE DATA AT LOWER ALTITUDE S THAN PREVIOUSLY TESTED OBTAIN BA SE DATA ABOUT SSM E PARALLEL POSITI ON VERIFY PREVIOU S BASE DATA OBTAI N GAS RECOVERY TE MPERATURE DATA	HEAT-TRANS	0.0225 / 2.2 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIN D TUNNEL	J.W.FOUST/RI D.W.HERSEY -DMS	DMS-DR-2282 APRIL, 1978
LTV - LSWT - 422 / MA14 CR-147,649	A LOW SPEED WIND TUNNEL TEST OF A 0.050 SCALE MODEL OF SHUTTLE ORBIT ER (MODEL 089B) T O INVESTIGATE THE LONGITUDINAL AND LATERAL DIRECTIO NAL EFFECTS OF CA NARD AND TAIL CON FIGURATIONAL MODI FICATIONS IN THE LTV LSWT	ORBITER 089B	CONFIGURATIONAL E FFECTS STUDY FOR 6 CANARDS AND TWO TAILS ON ORBITER 089B	FORCE	.050 / .067 - .067	MSC / LTV - LOW SPEED WIND TUNNEL	D.B. WATSON -DMS	DMS-DR-2283 NOV., 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	AERODYNAMIC NOISE	INTEGRATED SPACE	TO MEASURE AERODY	STRUCT-DYN	0.035 /	ROCKWELL/	J. W. FOUST/RI	DMS-DR-2284
97SWT -	OF THE 0.035-SCA	SHUTTLE VEHICLE	NAMIC NOISE ON TH		0.65 -	ARC -	D. L. KASSNER/ARC	VOLUME 01
113 /	LE INTEGRATED SPA	84-OTS	E INTEGRATED SHUT		2.5	9-FOOT BY 7-FO	W. B. MEINDERS	MAY, 1977
11TWT -	CE SHUTTLE VEHICL		TLE, TO MEASURE F			OT SUPERSONIC	-DMS	
IS2A/B	E MODEL (84-OTS)		LUCTUATING PRESSU			WIND TUNNEL (U		
CR-151,035	IN THE NASA-AMES		RES IN THE ORBITE			NITARY)		
	RESEARCH CENTER U		R PAYLOAD BAY DUE			11-FOOT TRANSO		
	NITARY PLAN WIND		TO AERODYNAMIC			NIC WIND TUNNE		
	TUNNELS (IS2A/B)		FLOW ACROSS THE V			L (UNITARY)		
			ENT SYSTEM HOLES,					
			TO DEFINE FORE A					
			ND AFT BUFFET LOA					
			DS ON THE VERTICA					
			L TAIL					
ARC -	AERODYNAMIC NOISE	INTEGRATED SPACE	TO MEASURE AERODY	STRUCT-DYN	0.035 /	ROCKWELL/	J. W. FOUST/RI	DMS-DR-2284
97SWT -	OF THE 0.035-SCA	SHUTTLE VEHICLE	NAMIC NOISE ON TH		0.65 -	ARC -	D. L. KASSNER/ARC	VOLUME 02
113 /	LE INTEGRATED SPA	84-OTS	E INTEGRATED SHUT		2.5	9-FOOT BY 7-FO	W. B. MEINDERS	MAY, 1977
11TWT -	CE SHUTTLE VEHICL		TLE, TO MEASURE F			OT SUPERSONIC	-DMS	
IS2A/B	E MODEL (84-OTS)		LUCTUATING PRESSU			WIND TUNNEL (U		
CR-151,036	IN THE NASA-AMES		RES IN THE ORBITE			NITARY)		
	RESEARCH CENTER U		R PAYLOAD BAY DUE			11-FOOT TRANSO		
	NITARY PLAN WIND		TO AERODYNAMIC			NIC WIND TUNNE		
	TUNNELS (IS2A/B)		FLOW ACROSS THE V			L (UNITARY)		
			ENT SYSTEM HOLES,					
			TO DEFINE FORE A					
			ND AFT BUFFET LOA					
			DS ON THE VERTICA					
			L TAIL					
AEDC -	RESULTS OF TESTS	82-0, WITH AND WI	TO DETERMINE AERO	HEAT-TRANS	0.04 /	ROCKWELL/	M. QUAN/RI	DMS-DR-2285
HWTB -	USING THE PHASE C	THOUT PROTUBERANC	DYNAMIC AERODYNAM		8.0 -	AEDC -	D. A. SARVER	APRIL, 1976
VA526/21B/	HANGE PAINT TECHN	ES, 50% FOREBODY	IC HEATING RATES		8.0	HYPERSONIC WIN	M. M. MOSER JR.	
OH50A	IQUE ON 0.04 SCAL	MODELS	DUE TO VARIOUS PR			D TUNNEL (B)	-DMS	
CR-144,595	E 50 PERCENT FORE		OTUBERANCES AND R					
	BODY MODELS (82-0		ECESSIONS					
	) OF THE ROCKWELL							
	SPACE SHUTTLE OR							
	BITER							

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ARC -	RESULTS OF AN AIR	SSV ORBITER (MODE	TO MEASURE PROBE	FORCE	0.4 -	ROCKWELL/	V. ESPARZA/ROCKWE	DMS-DR-2286
14-TWT -	PROBE INVESTIGAT	L 57-0) FOREBODY	STATIC PRESSURE E		1.2	ARC -	LL D.E. THORNTO	OCT., 1976
150-1 /	ION UTILIZING A O	WITH TPS TILES AL	RROR, TO DETERMIN			14-FOOT TRANSO	N/ROCKWELL	
OA220	.10 SCALE ORBITER	ONE	E LOCAL ANGLE OF			NIC WIND TUNNE	H. AUGUST/ROCKWEL	
CR-147,625	(MODEL 57-0) FOR	SSV ORBITER (MODE	ATTACK, AND TO DE			L	L A. MENA/ROCK	
	EBODY IN THE AMES	L 57-0) FOREBODY	TERMINE THE INFLU				WELL	
	RESEARCH CENTER	WITH TPS TILES IN	ENCE OF THE AIR V				R. B. LOWE	
	14 FOOT WIND TUNN	MODIFIED CONFIG.	ENT DOOR. TWO ALT				-DMS	
	EL (OA220)	SSV ORBITER (MODE	ERNATE AIR DATA S					
		L 57-0) FOREBODY	YSTEMS WILL ALSO					
		.TPS, WITH ADP AN	BE EVALUATED.NAME					
		D THE ORBITER ADP	LY, A FLUSH PORT					
		.FLIGHTTEST NOSE	SYSTEM IN THE FOR					
		BOOM WITH MODIFIE	WARD FUSELAGE, AN					
		D TPS AND TPS FLI	D INSTRUMENTED IN					
		GHT CONFIGURATION	THE RCS CHAMBERS					
LERC -	RESULTS OF BASE H	BASE HEATING MODE	DETERMINE GAS REC	HEAT-TRANS	0.04 /	ROCKWELL/	W. GARTON/RI	DMS-DR-2288
SPF -	EATING INVESTIGAT	L 25-0	OVERY TEMPERATURE			LERC -	J. E. VAUGHN	NOV., 1977
OH64	IONS ON A 0.04 SC		S PRESSURE DISTR			SPACE POWER FA	M. M. MOSER JR.	
CR-151,384	ALE SPACE SHUTTLE		IBUTIONS, BASE HE			CILITY	-DMS	
	ORBITER BASE (MOD		ATING RATES DURIN					
	EL 25-0) IN THE N		G 2ND STAGE ASCEN					
	ASA/LARC SPACE PO		T RESULTING FROM					
	WER FACILITY		PLUME RECIRCULATI					
			ON AND DIRECT PLU					
			ME IMPINGEMENT					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 751 / OA163 CR-147,611	RESULTS OF A LAND ING LOADS TEST US ING A 0.0405-SCAL E MODEL (16-O) OF THE SPACE SHUTTL E ORBITER IN THE ROCKWELL INTERNAT IONAL NAAL WIND T UNNEL (OA163)	SPACE SHUTTLE ORB ITER 140C	TO DEFINE THE ORB ITER LANDING GEAR SYSTEM PRESSURE LOADING, TO RECOR D LANDING GEAR DO OR AND STRUT HING E MOMENT LEVELS, TO RECORD AERODYN AMIC INFLUENCE OF LANDING GEAR ON ORBITER FORCE DAT A AND TO INVESTIG ATE 40X80 ARC TUN NEL STRUT SIMULAT ION EFFECTS.	FORCE PRESSURE	0.0405 / 0.17 - 0.17	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL, R. C . MENNELL/RI D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2289 VOLUME 01 DEC., 1976
NRLAD - LSWT - 751 / OA163 CR-147,612	RESULTS OF A LAND ING LOADS TEST US ING A 0.0405-SCAL E MODEL (16-O) OF THE SPACE SHUTTL E ORBITER IN THE ROCKWELL INTERNAT IONAL NAAL WIND T UNNEL (OA163)	SPACE SHUTTLE ORB ITER 140C	TO DEFINE THE ORB ITER LANDING GEAR SYSTEM PRESSURE LOADING, TO RECOR D LANDING GEAR DO OR AND STRUT HING E MOMENT LEVELS, TO RECORD AERODYN AMIC INFLUENCE OF LANDING GEAR ON ORBITER FORCE DAT A AND TO INVESTIG ATE 40X80 ARC TUN NEL STRUT SIMULAT ION EFFECTS.	FORCE PRESSURE	0.0405 / 0.17 - 0.17	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL, R. C . MENNELL/RI D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2289 VOLUME 02 DEC., 1976

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NRLAD - LSWT - 751 / OA163 CR-147,613	RESULTS OF A LANDING LOADS TEST USING A 0.0405-SCALE MODEL (16-O) OF THE SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL WIND TUNNEL (OA163)	SPACE SHUTTLE ORBITER 140C	TO DEFINE THE ORBITER LANDING GEAR SYSTEM PRESSURE LOADING, TO RECORD LANDING GEAR DOOR AND STRUT HINGE MOMENT LEVELS, TO RECORD AERODYNAMIC INFLUENCE OF LANDING GEAR ON ORBITER FORCE DATA AND TO INVESTIGATE 40X80 ARC TUNNEL STRUT SIMULATION EFFECTS.	FORCE PRESSURE	0.0405 / 0.17 - 0.17	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL, R. C. MENNELL/RI D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2289 VOLUME 03 DEC., 1976
NRLAD - LSWT - 751 / OA163 CR-147,614	RESULTS OF A LANDING LOADS TEST USING A 0.0405-SCALE MODEL (16-O) OF THE SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL WIND TUNNEL (OA163)	SPACE SHUTTLE ORBITER 140C	TO DEFINE THE ORBITER LANDING GEAR SYSTEM PRESSURE LOADING, TO RECORD LANDING GEAR DOOR AND STRUT HINGE MOMENT LEVELS, TO RECORD AERODYNAMIC INFLUENCE OF LANDING GEAR ON ORBITER FORCE DATA AND TO INVESTIGATE 40X80 ARC TUNNEL STRUT SIMULATION EFFECTS.	FORCE PRESSURE	0.0405 / 0.17 - 0.17	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL, R. C. MENNELL/RI D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2289 VOLUME 04 DEC., 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - V/STOL - 129 / CA8 CR-147,641	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR THE 0.04 SCALE 747 CAM AND THE O .0405 SCALE SPACE SHUTTLE ORBITER IN THE NASA LANGL EY V/STOL TRANSIT ION RESEARCH WIND TUNNEL	747 ALONE 747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CO NFIGURATIONS	TO INVESTIGATE TH E EFFECTS OF FLAP SETTING, STABILI ZER ANGLE, AND GROUND PROXIMITY ON THE CONFIGURAT IONS TESTED.	FORCE	0.0400 , 0.0405 / 0.15 - 0.21	BOEING / LARC - V/STOL TRANSIT ION RESEARCH W IND TUNNEL	R.D. KNUDSEN/THE BOEING CO. J.LOUISSE AND J.H .WALTER/THE BOEIN G CO. D. A. SARVER G. W. KLUG -DMS	DMS-DR-2290 VOLUME 01 NOV., 1976
LARC - V/STOL - 129 / CA8 CR-147,642	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR THE 0.04 SCALE 747 CAM AND THE O .0405 SCALE SPACE SHUTTLE ORBITER IN THE NASA LANGL EY V/STOL TRANSIT ION RESEARCH WIND TUNNEL	747 ALONE 747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CO NFIGURATIONS	TO INVESTIGATE TH E EFFECTS OF FLAP SETTING, STABILI ZER ANGLE, AND GROUND PROXIMITY ON THE CONFIGURAT IONS TESTED.	FORCE	0.0400 , 0.0405 / 0.15 - 0.21	BOEING / LARC - V/STOL TRANSIT ION RESEARCH W IND TUNNEL	R.D. KNUDSEN/THE BOEING CO. J.LOUISSE AND J.H .WALTER/THE BOEIN G CO. D. A. SARVER G. W. KLUG -DMS	DMS-DR-2290 VOLUME 02 NOV., 1976
LARC - V/STOL - 129 / CA8 CR-147,643	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR THE 0.04 SCALE 747 CAM AND THE O .0405 SCALE SPACE SHUTTLE ORBITER IN THE NASA LANGL EY V/STOL TRANSIT ION RESEARCH WIND TUNNEL	747 ALONE 747/ORBITER-FERRY CONFIGURATION, 7 47/ORBITER-ALT CO NFIGURATIONS	TO INVESTIGATE TH E EFFECTS OF FLAP SETTING, STABILI ZER ANGLE, AND GROUND PROXIMITY ON THE CONFIGURAT IONS TESTED.	FORCE	0.0400 , 0.0405 / 0.15 - 0.21	BOEING / LARC - V/STOL TRANSIT ION RESEARCH W IND TUNNEL	R.D. KNUDSEN/THE BOEING CO. J.LOUISSE AND J.H .WALTER/THE BOEIN G CO. D. A. SARVER G. W. KLUG -DMS	DMS-DR-2290 VOLUME 03 NOV., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - LTPT - 214 / LA36B				FORCE		LARC / LARC - LOW-TURBULENCE PRESSURE TUNN EL	D.B. WATSON -DMS	DMS-DR-2292 TO LRC
AEDC - SWTA - K1A / IA40 CR-151,381	RESULTS OF TESTS USING A 0.010-SCA LE SSV MODEL 75-O TS IN THE AEDC VK F TUNNEL A	MODEL 75-OTS (72- O WING, 140C MOD. FUSELAGE, ET, SR B)	TO OBTAIN PROXIMI TY FORCE AND MOME NT DATA FOR ET AN D SRB WITH SRB SE PARATION MOTOR PL UME EFFECTS	FORCE	0.010 / 4.5 -	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, J. MARROQUIN/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2293 DEC., 1977
NRLAD - LSWT - 752 / OA172 CR-160,822	RESULTS OF TESTS OF A SPACE SHUTTL E ORBITER FERRY C ONFIGURATION USIN G A 140A/B 0.0405 -SCALE MODEL (43- O) IN THE ROCKWEL L INTERNATIONAL 7 .75 X 11 FOOT LOW SPEED WIND TUNNE L (OA172)	140A/B SS ORBITER (MODEL 43-O) ORB ITER FERRY CONFIG URATION	TO DEFINE AND VER IFY ORBITER STABI LITY AND CONTROL CHARACTERISTICS, BOTH IN AND OUT O F THE PRESENCE OF THE GROUND, WITH THE FERRY CONFIG URATION AFTERBODY INSTALLED	FORCE PRESSURE	0.0405 / 0.13 - 0.26	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	M. T. HUGHES/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2294 VOLUME 01 JUNE, 1981
NRLAD - LSWT - 752 / OA172 CR-160,823	RESULTS OF TESTS OF A SPACE SHUTTL E ORBITER FERRY C ONFIGURATION USIN G A 140A/B 0.0405 -SCALE MODEL (43- O) IN THE ROCKWEL L INTERNATIONAL 7 .75 X 11 FOOT LOW SPEED WIND TUNNE L (OA172)	140A/B SS ORBITER (MODEL 43-O) ORB ITER FERRY CONFIG URATION	TO DEFINE AND VER IFY ORBITER STABI LITY AND CONTROL CHARACTERISTICS, BOTH IN AND OUT O F THE PRESENCE OF THE GROUND, WITH THE FERRY CONFIG URATION AFTERBODY INSTALLED	FORCE PRESSURE	0.0405 / 0.13 - 0.26	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	M. T. HUGHES/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2294 VOLUME 02 JUNE, 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF AN INV	ET ALONE T34	A THIN-SKIN THERM	HEAT-TRANS	0.0175 /	ROCKWELL/	W.H. DYE/ROCKWELL	DMS-DR-2295
SWTA -	ESTIGATION OF THE	ORBITER ALONE B6	OCOUPLE TEST WAS		3.01 -	AEDC -	INTERNATIONAL	VOLUME 01
A4A /	SPACE SHUTTLE IN	2C12E52F10M16R18V	CONDUCTED TO OBTA		4.01	SUPERSONIC WIN	K.W. NUTT/ARO INC	SEPT., 1977
IH41B	TEGRATED VEHICLE	8W116	IN HEAT-TRANSFER			D TUNNEL (A)	.	
CR-151,069	AERODYNAMIC HEATI	ORBITER + TANK B6	DATA ON THE SPACE				D. A. SARVER	
	NG CHARACTERISTIC	2C12E52F10M16R185	SHUTTLE INTEGRAT				G. W. KLUG	
	S OBTAINED USING	23T34V8W116	ED VEHICLE DURING				-DMS	
	THE 0.0175-SCALE		THE ASCENT PHASE					
	MODEL 60-OTS IN A		OF ITS FLIGHT PRO					
	EDC TUNNEL A DURI		FILE					
	NG TESTS IH41B							
AEDC -	RESULTS OF AN INV	ET ALONE T34	A THIN-SKIN THERM	HEAT-TRANS	0.0175 /	ROCKWELL/	W.H. DYE/ROCKWELL	DMS-DR-2295
SWTA -	ESTIGATION OF THE	ORBITER ALONE B6	OCOUPLE TEST WAS		3.01 -	AEDC -	INTERNATIONAL	VOLUME 02
A4A /	SPACE SHUTTLE IN	2C12E52F10M16R18V	CONDUCTED TO OBTA		4.01	SUPERSONIC WIN	K.W. NUTT/ARO INC	SEPT., 1977
IH41B	TEGRATED VEHICLE	8W116	IN HEAT-TRANSFER			D TUNNEL (A)	.	
CR-151,070	AERODYNAMIC HEATI	ORBITER + TANK B6	DATA ON THE SPACE				D. A. SARVER	
	NG CHARACTERISTIC	2C12E52F10M16R185	SHUTTLE INTEGRAT				G. W. KLUG	
	S OBTAINED USING	23T34V8W116	ED VEHICLE DURING				-DMS	
	THE 0.0175-SCALE		THE ASCENT PHASE					
	MODEL 60-OTS IN A		OF ITS FLIGHT PRO					
	EDC TUNNEL A DURI		FILE					
	NG TESTS IH41B							
AEDC -	RESULTS OF AN INV	ET ALONE T34-	A THIN-SKIN THERM	HEAT-TRANS	0.0175 /	ROCKWELL/	W.H. DYE/ROCKWELL	DMS-DR-2295
SWTA -	ESTIGATION OF THE	ORBITER ALONE B6	OCOUPLE TEST WAS		3.01 -	AEDC -	INTERNATIONAL	VOLUME 03
A4A /	SPACE SHUTTLE IN	2C12E52F10M16R18V	CONDUCTED TO OBTA		4.01	SUPERSONIC WIN	K.W. NUTT/ARO INC	SEPT., 1977
IH41B	TEGRATED VEHICLE	8W116	IN HEAT-TRANSFER			D TUNNEL (A)	.	
CR-151,071	AERODYNAMIC HEATI	ORBITER + TANK B6	DATA ON THE SPACE				D. A. SARVER	
	NG CHARACTERISTIC	2C12E52F10M16R185	SHUTTLE INTEGRAT				G. W. KLUG	
	S OBTAINED USING	23T34V8W116	ED VEHICLE DURING				-DMS	
	THE 0.0175-SCALE		THE ASCENT PHASE					
	MODEL 60-OTS IN A		OF ITS FLIGHT PRO					
	EDC TUNNEL A DURI		FILE					
	NG TESTS IH41B							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF AN INV	ET ALONE T34	A THIN-SKIN THERM	HEAT-TRANS	0.0175 /	ROCKWELL/	W.H. DYE/ROCKWELL	DMS-DR-2295
SWTA -	ESTIGATION OF THE	ORBITER ALONE B6	OCOUPLE TEST WAS		3.01 -	AEDC -	INTERNATIONAL	VOLUME 04
A4A /	SPACE SHUTTLE IN	2C12E52F10M16R18V	CONDUCTED TO OBTA		4.01	SUPERSONIC WIN	K.W. NUTT/ARO INC	OCT., 1977
IH41B	TEGRATED VEHICLE	8W116	IN HEAT-TRANSFER			D TUNNEL (A)	.	
CR-151,072	AERODYNAMIC HEATI	ORBITER + TANK B6	DATA ON THE SPACE				D. A. SARVER	
	NG CHARACTERISTIC	2C12E52F10M16R185	SHUTTLE INTEGRAT				G. W. KLUG	
	S OBTAINED USING	23T34V8W116	ED VEHICLE DURING				-DMS	
	THE 0.0175-SCALE		THE ASCENT PHASE					
	MODEL 60-OTS IN A		OF ITS FLIGHT PRO					
	EDC TUNNEL A DURI		FILE					
	NG TESTS IH41B							
AEDC -	RESULTS OF AN INV	ET ALONE T34	A THIN-SKIN THERM	HEAT-TRANS	0.0175 /	ROCKWELL/	W.H. DYE/ROCKWELL	DMS-DR-2295
SWTA -	ESTIGATION OF THE	ORBITER ALONE B6	OCOUPLE TEST WAS		3.01 -	AEDC -	INTERNATIONAL	VOLUME 05
A4A /	SPACE SHUTTLE IN	2C12E52F10M16R18V	CONDUCTED TO OBTA		4.01	SUPERSONIC WIN	K.W. NUTT/ARO INC	OCT., 1977
IH41B	TEGRATED VEHICLE	8W116	IN HEAT-TRANSFER			D TUNNEL (A)	.	
CR-151,073	AERODYNAMIC HEATI	ORBITER + TANK B6	DATA ON THE SPACE				D. A. SARVER	
	NG CHARACTERISTIC	2C12E52F10M16R185	SHUTTLE INTEGRAT				G. W. KLUG	
	S OBTAINED USING	23T34V8W116	ED VEHICLE DURING				-DMS	
	THE 0.0175-SCALE		THE ASCENT PHASE					
	MODEL 60-OTS IN A		OF ITS FLIGHT PRO					
	EDC TUNNEL A DURI		FILE					
	NG TESTS IH41B							
LARC -	SHUTTLE MODEL TAI	.03614-SCALE ORBI	TO DETERMINE THE	PRESSURE	.03614 /	LARC /	BERNARD SPENCER,G	DMS-DR-2296
LTPT -	LCONE PRESSURE DI	TER MODEL OF A 08	SENSITIVITY OF TH		.20 -	LARC -	EORGE M. WARE/LAR	VOLUME 01
229 ./	STRIBUTION AT LOW	9B CONFIGURATION	E TAILCONE TO CHA		.30	LOW-TURBULENCE	C	AUGUST, 1976
LA81	SUBSONIC SPEEDS	WITH A 139B CONFI	NGES IN REYNOLDS			PRESSURE TUNN	R. H. LINDAHL	
CR-147,609	OF A 0.03614-SCAL	GURATION NOSE FOR	NUMBER,DETERMINE			EL	-DMS	
	E MODEL IN THE NA	WARD OF F.S. 500.	THE PRESSURE DIST					
	SA/LARC LOW TURBU		RIBUTION OVER THE					
	LENCE PRESSURE TU		TAILCONE FOR STR					
	NNEL (LA81)		UCTURAL DESIGN PU					
			RPOSES,AND TO DET					
			ERMINE THE INTERF					
			ERENCE EFFECTS OF					
			THREE TYPES OF WI					
			ND TUNNEL MOUNTIN					
			G TECHNIQUES ON T					
			HE TAILCONE					

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LARC - LTPT - 229 / LA81 CR-147,610	SHUTTLE MODEL TAILCONE PRESSURE DISTRIBUTION AT LOW SUBSONIC SPEEDS OF A 0.03614-SCALE MODEL IN THE NASA/LARC LOW TURBULENCE PRESSURE TUNNEL (LA81)	.03614-SCALE ORBITER MODEL OF A 089B CONFIGURATION WITH A 139B CONFIGURATION NOSE FORWARD OF F.S. 500.	TO DETERMINE THE SENSITIVITY OF THE TAILCONE TO CHANGES IN REYNOLDS NUMBER,DETERMINE THE PRESSURE DISTRIBUTION OVER THE TAILCONE FOR STRUCTURAL DESIGN PURPOSES,AND TO DETERMINE THE INTERFERENCE EFFECTS OF THREE TYPES OF WIND TUNNEL MOUNTING TECHNIQUES ON THE TAILCONE	PRESSURE	.03614 / .20 - .30	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	BERNARD SPENCER,GEORGE M. WARE/LARC R. H. LINDAHL -DMS	DMS-DR-2296 VOLUME 02 AUGUST, 1976
LARC - UPWT - 1145 / LA45A/B CR-147,628	HIGH SUPERSONIC AERODYNAMIC CHARACTERISTICS OF FIVE IRREGULAR PLANFORM WINGS WITH SYSTEMATICALLY VARYING WING FILLET GEOMETRY TESTED IN THE NASA/LARC 4-FOOT UPWT (LEG 2) (LA45A/B)	WING FILLET SWEEP	ESTABLISH GUIDLINES FOR LINEARIZATION OF ORBITER AERODYNAMIC CHARACTERISTICS	FORCE	1.0 / 2.36 - 3.7	LARC / LARC - UNITARY PLAN WIND TUNNEL	GEO. WARE, B. SPENCER/LARC J. W. BALL D.B. WATSON -DMS	DMS-DR-2297 NOV., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - LTPT - 227 / LTPT - 238 / LA73A LA73B CR-151,409	LOW SPEED STABILITY AND CONTROL CHARACTERISTICS OF A 0.015 SCALE MODEL 69-0 OF THE SPACE SHUTTLE ORBITER WITH FOREBODY RSI MODIFICATIONS IN THE NASA/LARC LOW TURBULENCE PRESSURE TUNNEL (LA73A/B)	SSV ORBITER MODEL 69-0	TO DETERMINE LOW-SPEED STABILITY AND CONTROL CHARACTERISTICS OF THE SPACE SHUTTLE ORBITER WITH FOREBODY RSI MODIFICATIONS	FORCE	0.015 / 0.25 - 0.25	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL LOW-TURBULENCE PRESSURE TUNNEL	BERNARD SPENCER/LARC J. W. BALL M. M. MANN -DMS	DMS-DR-2298 MAY, 1978
LARC - 710HST - 999 / LA80 TM-X 3497	DYNAMIC STABILITY CHARACTERISTICS OF THE COMBINATION SPACE SHUTTLE ORBITER AND FERRY COMBINATION	ORBITER/747 FERRY VEHICLE	TO MEASURE PITCH, YAW, ROLL DAMPING, NORMAL FORCE DUE TO PITCH RATE, AND YAWING MOMENT DUE TO ROLL RATE AND ROLLING MOMENT DUE TO YAW RATE	FORCE	0.015 / 0.2 - 0.5	LARC / LARC - HIGH SPEED 7 BY 10-FOOT TUNNEL	D. C. FREEMAN, JR., R. P. BOYDEN/LARC R. H. LINDAHL -DMS	DMS-DR-2299 JUNE, 1977
LARC - LTPT - 228 / LA61B CR-147,629	LOW-SUBSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON MODEL (44-0) OF THE SPACE SHUTTLE ORBITER IN THE LANGLEY RESEARCH CENTER LOW TURBULENCE PRESSURE TUNNEL	140A/B/C (B26 C9 E43 F8 M16 N28 R5 V8 W)	TO GENERATE A DETAILED AERODYNAMIC DATA BASE FOR CURRENT SS CONFIGURATION	FORCE	0.015 / 0.15 - 0.25	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	B. SPENCER, JR., G. WARE/LARC W. B. MEINDERS -DMS	DMS-DR-2300 OCT., 1976

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AEDC -	RESULTS OF PHASE	MODELS 82-1, -3,	TO DETERMINE THE	HEAT-TRANS	0.040 /	ROCKWELL/	W. H. DYE/RI	DMS-DR-2301
HWTB -	CHANGE PAINT HEAT	-5, -8, -11, ALL	EFFECTS OF VARIOU		7.93 -	AEDC -	K. HUBE, D. CARVE	MAY, 1976
82A /	TRANSFER TESTS U	50 PERCENT FOREBO	S ROUGHNESS ELEME		8.00	HYPERSONIC WIN	R/ARO	
OH54A	TILIZING 0.040 SC	DIES	NTS ON BOUNDARY L			D TUNNEL (B)	D. A. SARVER	
CR-144,605	ALE 50 PERCENT FO		AYER TRANSITION				M. M. MOSER JR.	
	REBODY MODELS (NO						-DMS	
	. 82-0) OF THE RO							
	CKWELL INTERNATIO							
	NAL SPACE SHUTTLE							
	ORBITER IN AEDC							
	VKF HYPERSONIC TU							
	NNEL B							
ARC -	RESULTS OF TESTS	ORBITER VEHICLE 1	OBTAIN STABILITY	FORCE	0.36 /	ROCKWELL/	R.L.MAKI/ARC	DMS-DR-2302
40SWT -	USING A 0.36-SCAL	01 WITH TAIL CONE	AND CONTROL FORCE	PRESSURE	0.114-	ARC -	T.J.DZIUBALA/R.I.	VOLUME 01
479 /	E MODEL(76-0) OF	ORBITER VEHICLE 1	, MOMENT AND CONT		0.264	40-FOOT BY 80-	S. R. HOULIHAN	MAY, 1982
OA174	THE SPACE SHUTTLE	01 WITH OUT TAIL	ROL SURFACE HINGE			FOOT SUBSONIC	C. R. EDWARDS	
CR-167,340	ORBITER VEHICLE	CONE	MOMENT DATA; VER			WIND TUNNEL	-DMS	
	101 IN THE NASA/A		IFY AND MEASURE L					
	MES RESEARCH CENT		ANDING GEAR STRUT					
	ER'S 40 X 80 SUBS		AND DOOR PRESSUR					
	ONIC WIND TUNNEL		ES; OBTAIN TAIL C					
	(OA174)		ONE PRESSURE DIST					
			RIBUTIONS; CALIBR					
			ATE BASELINE AND					
			ALTERNATE AIR DAT					
			A SYSTEMS					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 40SWT - 479 / OA174 CR-167,341	RESULTS OF TESTS USING A 0.36-SCALE MODEL(76-0) OF THE SPACE SHUTTLE ORBITER VEHICLE 101 IN THE NASA/AMES RESEARCH CENTER'S 40 X 80 SUBSONIC WIND TUNNEL (OA174)	ORBITER VEHICLE 101 WITH TAIL CONE ORBITER VEHICLE 101 WITH OUT TAIL CONE	OBTAIN STABILITY AND CONTROL FORCE, MOMENT AND CONTROL SURFACE HINGE MOMENT DATA; VERIFY AND MEASURE LANDING GEAR STRUT AND DOOR PRESSURES; OBTAIN TAIL CONE PRESSURE DISTRIBUTIONS; CALIBRATE BASELINE AND ALTERNATE AIR DATA SYSTEMS	FORCE PRESSURE	0936 / 0.114- 0.264	ROCKWELL/ ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND TUNNEL	R.L.MAKI/ARC T.J.DZIUBALA/R.I. S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2302 VOLUME 02 MAY, 1982
AEDC - HWTB - E3A / OH75 CR-144,618	RESULTS OF PHASE CHANGE PAINT TESTS OF 0.040 SCALE 50 PERCENT FOREBODY MODELS (82-0) OF THE SPACE SHUTTLE ORBITER IN THE AEDC VKF 'B' HYPERSONIC WIND TUNNEL	MODELS 82-1, -4, 50 PERCENT FOREBODIES	TO DETERMINE THE EFFECTS OF SIMULATED RCS NOZZLES, PROTUBERANCES, AND PENETRATIONS ON AERODYNAMIC HEATING RATES DURING SIMULATED ENTRY CONDITIONS	HEAT-TRANS	0.030 / 8 - 8	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	W. H. DYE/RI L. CARTER/ARO D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2303 MAY, 1976
ARC - 12PT - 180-1 / OA173 CR-160,846	RESULTS OF TESTS TO EVALUATE ARC 40X80-FOOT TUNNEL SUPPORT STRUT TARES ON THE SPACE SHUTTLE VEHICLE WITH TAIL CONE USING A 0.03-SCALE MODEL (45-0) IN THE NASA/ARC 12-FOOT PRESSURE WIND TUNNEL (OA173)	TAILCONE-ON	TO EVALVATE MODEL SUPPORT SYSTEM TARES FOR TEST OA174; THIS TEST IS WITH 40X80 FOOT STRUTS AND WINDSHIELDS IN AND OUT TO DETERMINE THEIR EFFECT ON THE ORBITER TAILCONE-ON CONFIGURATION	FORCE PRESSURE	0.030 / .26- .26	ROCKWELL/ ARC - 12-FOOT PRESSURE TUNNEL	R. L. GILLENS, T. J. DZIUBALA, R. H. MULFINGER/RI C. R. EDWARDS -DMS	DMS-DR-2304 NOV., 1981

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LTV - HSWT - 573 / LA76 CR-151,059	HIGH REYNOLDS NUMBER TRANSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015 SCALE(REMOTELY CONTROLLED ELEVON) MODEL 44-O OF THE SPACE SHUTTLE ORBITER TESTED IN THE VSD HIGH SPEED TUNNEL (LA76)	B26C9E43F8M16N28R5V8W	TO OBTAIN HIGH REYNOLDS NUMBER TRANSONIC AERODYNAMIC DATA ON CONTROL SURFACE LINEARITY AND SENSITIVITY TO MACH NUMBER FOR FINE-CUT SPEED BRAKE, BODY FLAP AND RUDDER DEFLECTIONS; TO INVESTIGATE THE INTERACTIVE EFFECTS OF MUTUAL CONTROL SURFACE DEFLECTIONS		0.015 / 0.6 - 2.9	LARC / LTV - HIGH SPEED WIND TUNNEL	M. M. MANN -DMS	DMS-DR-2305 VOLUME 01 JUNE, 1977
LTV - HSWT - 573 / LA76 CR-151,060	HIGH REYNOLDS NUMBER TRANSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015 SCALE(REMOTELY CONTROLLED ELEVON) MODEL 44-O OF THE SPACE SHUTTLE ORBITER TESTED IN THE VSD HIGH SPEED TUNNEL (LA76)	B26C9E43F8M16N28R5V8W	TO OBTAIN HIGH REYNOLDS NUMBER TRANSONIC AERODYNAMIC DATA ON CONTROL SURFACE LINEARITY AND SENSITIVITY TO MACH NUMBER FOR FINE-CUT SPEED BRAKE, BODY FLAP AND RUDDER DEFLECTIONS; TO INVESTIGATE THE INTERACTIVE EFFECTS OF MUTUAL CONTROL SURFACE DEFLECTIONS		0.015 / 0.6 - 2.9	LARC / LTV - HIGH SPEED WIND TUNNEL	M. M. MANN -DMS	DMS-DR-2305 VOLUME 02 JUNE, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11,97,87- 144-1 / IA135A/B/C CR-167,354	RESULTS OF TESTS ON THE SPACE SHUT TLE LAUNCH CONFIG URATION USING THE 0.03 SCALE MODEL 47-OTS IN THE NA SA/AMES UNITARY P LAN WIND TUNNEL (IA135A/B/C)	O - B26C9E44F9M16 R5V8W116 T - AT28AT29AT30A T31AT32AT128FL10F L11FR10PT22PT23PT 24PT25PT26PT27T37 S - N86S21PS13PS1 6PS20PS21PS22PS23 PS24PS25PS26	THE PURPOSE OF TH IS TEST WAS TO OB TAIN PRESSURE DIS TRIBUTIONS, INDIV IDUAL COMPONENT L OADS, AND WING/EL EVON LOADS. PRESS URE, FORCE AND MO MENT DATA WERE OB TAINED.	FORCE PRESSURE	0.0300 / 1.55 - 2.20	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL	P.J. HAWTHORNE, R .R. BURROWS, M.E. NICHOLS /RI D.L. KASSNER, J.J . BROWNSON /ARC D. A. SARVER G. W. KLUG -DMS	DMS-DR-2306 VOLUME 01 MAY, 1982
ARC - 11,97,87- 144-1 / IA135A/B/C CR-167,355	RESULTS OF TESTS ON THE SPACE SHUT TLE LAUNCH CONFIG URATION USING THE 0.03 SCALE MODEL 47-OTS IN THE NA SA/AMES UNITARY P LAN WIND TUNNEL (IA135A/B/C)	O - B26C9E44F9M16 R5V8W116 T - AT28AT29AT30A T31AT32AT128FL10F L11FR10PT22PT23PT 24PT25PT26PT27T37 S - N86S21PS13PS1 6PS20PS21PS22PS23 PS24PS25PS26	THE PURPOSE OF TH IS TEST WAS TO OB TAIN PRESSURE DIS TRIBUTIONS, INDIV IDUAL COMPONENT L OADS, AND WING/EL EVON LOADS. PRESS URE, FORCE AND MO MENT DATA WERE OB TAINED.	FORCE PRESSURE	0.0300 / 1.55 - 2.20	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL	P.J. HAWTHORNE, R .R. BURROWS, M.E. NICHOLS /RI D.L. KASSNER, J.J . BROWNSON /ARC D. A. SARVER G. W. KLUG -DMS	DMS-DR-2306 VOLUME 02 MAY, 1982
ARC - 11,97,87- 144-1 / IA135A/B/C CR-167,356	RESULTS OF TESTS ON THE SPACE SHUT TLE LAUNCH CONFIG URATION USING THE 0.03 SCALE MODEL 47-OTS IN THE NA SA/AMES UNITARY P LAN WIND TUNNEL (IA135A/B/C)	O - B26C9E44F9M16 R5V8W116 T - AT28AT29AT30A T31AT32AT128FL10F L11FR10PT22PT23PT 24PT25PT26PT27T37 S - N86S21PS13PS1 6PS20PS21PS22PS23 PS24PS25PS26	THE PURPOSE OF TH IS TEST WAS TO OB TAIN PRESSURE DIS TRIBUTIONS, INDIV IDUAL COMPONENT L OADS, AND WING/EL EVON LOADS. PRESS URE, FORCE AND MO MENT DATA WERE OB TAINED.	FORCE PRESSURE	0.0300 / 1.55 - 2.20	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL	P.J. HAWTHORNE, R .R. BURROWS, M.E. NICHOLS /RI D.L. KASSNER, J.J . BROWNSON /ARC D. A. SARVER G. W. KLUG -DMS	DMS-DR-2306 VOLUME 03 MAY, 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
TBCA -	RESULTS OF EXPERI	BOEING 747 CAM W/	VERIFICATION OF 7	FORCE	0.03 /	BOEING /	H.F. ANDERSON/BOE	DMS-DR-2307
BTWT -	MENTAL AERODYNAMI	TYPE II MODIFICAT	47 CAM W/TYPE II		0.3 -	TBCA -	ING	VOLUME 01
1496 /	C INVESTIGATION O	ION (MODEL TR-10	MODIFICATION, AND		0.7	TRANSONIC WIND	J. E. VAUGHN	SEPT., 1981
1497 /	N A 0.03 SCALE	07)	FERRY AND ALT			TUNNEL	G. R. LUTZ	
CA14A	MODEL BOEING 747	BOEING 747 CAM/OR	CONFIGURATION WIT				-DMS	
CR-160,840	CAM WITH SPACE SH	BITER - ALT CONFI	H ORBITER TAILCON					
	UTTLE ORBITER IN	GURATION	E ON.					
	THE BOEING	BOEING 747 CAM/OR						
	8X12 FOOT TRANSON	BITER - FERRY CON						
	IC WIND TUNNEL (C	FIGURATION						
	A14A)	ORBITER ALONE LES						
		S TAILCONE (MODE						
		L 45-0)						
TBCA -	RESULTS OF EXPERI	BOEING 747 CAM W/	VERIFICATION OF 7	FORCE	0.03 /	BOEING /	H.F. ANDERSON/BOE	DMS-DR-2307
BTWT -	MENTAL AERODYNAMI	TYPE II MODIFICAT	47 CAM W/TYPE II		0.3 -	TBCA -	ING	VOLUME 02
1496 /	C INVESTIGATION O	ION (MODEL TR-10	MODIFICATION, AND		0.7	TRANSONIC WIND	J. E. VAUGHN	SEPT., 1981
1497 /	N A 0.03 SCALE	07)	FERRY AND ALT			TUNNEL	G. R. LUTZ	
CA14A	MODEL BOEING 747	BOEING 747 CAM/OR	CONFIGURATION WIT				-DMS	
CR-160,841	CAM WITH SPACE SH	BITER - ALT CONFI	H ORBITER TAILCON					
	UTTLE ORBITER IN	GURATION	E ON.					
	THE BOEING	BOEING 747 CAM/OR						
	8X12 FOOT TRANSON	BITER - FERRY CON						
	IC WIND TUNNEL (C	FIGURATION						
	A14A)	ORBITER ALONE LES						
		S TAILCONE (MODE						
		L 45-0)						

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN -	AN EXPERIMENTAL D	19-OTS	TO DETERMINE HEAT	PRESSURE	0.0225 /	ROCKWELL/	R. F. DRZEWIECKI/	DMS-DR-2308
48HST -	ETERMINATION IN T		TRANSFER AND PRE		4.5 -	CALSPAN -	CALSPAN	OCT., 1976
I81 /	HE CALSPAN LUDWIE		SSURE DISTRIBUTIO		4.5	48-INCH HYPERS	J. W. FOUST/RI	
IH5	G TUBE OF THE BAS		NS IN BASE OF SS			ONIC SHOCK TUN	D. A. SARVER	
CR-147,636	E ENVIRONMENT OF		VEHICLE DURING SI			NEL	M. M. MOSER JR.	
	THE INTEGRATED SP		MULATED LAUNCH TR				-DMS	
	ACE SHUTTLE VEHIC		AJECTORY CONDITIO					
	LE AT SIMULATED M		NS OF MACH 4.5 AN					
	ACH 4.5 FLIGHT CO		D PRESSURE ALTITU					
	NDITIONS (TEST IH		DES BETWEEN 90,00					
	5 OF MODEL 19-OTS		0 AND 210,000 FEE					
	)		T 6066. HOURS--1.					
			152					
LARC -	TRANSONIC STABILI	FOREBODY B1, B6,	TO DETERMINE POSS	FORCE	0.015 /	LARC /	W.P.PHILLIPS/LARC	DMS-DR-2309
8TPT -	TY AND CONTROL CH	B7	IBLE ADVERSE AERO		0.35-	LARC -	C. R. EDWARDS	NOV., 1976
740 /	ARACTERISTICS OF		DYNAMIC EFFECTS O		1.20	8-FOOT TRANSON	-DMS	
LA72	A 0.015 SCALE MOD		F SLIGHT REDUCTIO			IC PRESSURE TU		
CR-147,644	EL 69-0 OF THE SP		N IN THE THICKNES			NNEL		
	ACE SHUTTLE ORBIT		S OF THE REUSABLE					
	ER WITH FOREBODY		SURFACE INSULATI					
	RSI MODIFICATION		ON (RSI) LOCATED					
	IN THE NASA/LARC		ALONG THE SIDES O					
	8-FOOT TPT (LA72)		F THE SPACE SHUTT					
			LE ORBITER FUSELA					
			GE FOREBODY					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC -	REENTRY STATIC ST	RIGHT-HAND SRB RE	TO DETERMINE AERO	FORCE	0.00548 /	MSFC /	J. D. JOHNSON/MSF	DMS-DR-2310
14TWT -	ABILITY CHARACTER	ENTRY CONFIG.	DYNAMIC STATIC ST		0.4 -	MSFC -	C	VOLUME 01
640 /	ISTICS OF A 0.005		ABILITY CHARACTER		4.45	14-INCH TRISON	G. D. STREBY/NSI	AUGUST, 1977
SA14FB	48 SCALE MODEL OF		ISTICS OF SRB REE			IC WIND TUNNEL	V. W. SPARKS	
CR-151,083	A RIGHT HAND 146-		NTRY CONFIGURATIO				M. M. MOSER JR.	
	INCH DIAMETER SOL		N				-DMS	
	ID ROCKET BOOSTER							
	(MSFC MODEL 486)							
	REENTRY CONFIGURA							
	TION AS DETERMINE							
	D FROM TESTS IN T							
	HE NASA/MSFC 14-I							
	NCH TRISONIC WIND							
	TUNNEL							
MSFC -	REENTRY STATIC ST	RIGHT-HAND SRB RE	TO DETERMINE AERO	FORCE	0.00548 /	MSFC /	J. D. JOHNSON/MSF	DMS-DR-2310
14TWT -	ABILITY CHARACTER	ENTRY CONFIG.	DYNAMIC STATIC ST		0.4 -	MSFC -	C	VOLUME 02
640 /	ISTICS OF A 0.005		ABILITY CHARACTER		4.45	14-INCH TRISON	G. D. STREBY/NSI	AUGUST, 1977
SA14FB	48 SCALE MODEL OF		ISTICS OF SRB REE			IC WIND TUNNEL	V. W. SPARKS	
CR-151,084	A RIGHT HAND 146-		NTRY CONFIGURATIO				M. M. MOSER JR.	
	INCH DIAMETER SOL		N				-DMS	
	ID ROCKET BOOSTER							
	(MSFC MODEL 486)							
	REENTRY CONFIGURA							
	TION AS DETERMINE							
	D FROM TESTS IN T							
	HE NASA/MSFC 14-I							
	NCH TRISONIC WIND							
	TUNNEL							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	RESULTS FROM INVE	B58C5E18F4R5V5W87	TO INVESTIGATE TH	PRESSURE	0.004 /	LARC /	JAMES C. ELLISON/	DMS-DR-2311
CF4 -	STIGATIONS IN THR	-VEHICLE 2A (MODI	E REAL GAS EFFECT		5.94 -	LARC -	LARC	AUGUST, 1976
267-268 /	EE NASA/LARC HYPE	FIED)	S USING A 0.004 S		20.30	FREON TUNNEL	J. W. BALL	
22HT -	RSONIC WIND TUNNE		CALE MODEL OF 3			22-INCH HELIUM	G. W. KLUG	
446 /	LS ON A 0.004-SCA		THE SPACE SHUTTLE			TUNNEL	-DMS	
LA78	LE MODEL SPACE SH		ORBITER					
LA87	UTTLE ORBITER (MO							
LA88	DEL 13P-0)TO DET							
CR-147,620	ERMINE REAL GAS E							
	FFECTS (LA78, LA8							
	7, LA88)							
AEDC -	RESULTS OF AN INV	VEHICLE 5, TO INC	TO OBTAIN HEAT TR	HEAT-TRANS	0.0175 /	ROCKWELL/	W. H. DYE/RI	DMS-DR-2312
SWTA -	ESTIGATION OF THE	LUDE SRB ALONE AN	ANSFER DATA ON TH		3.0 -	AEDC -	K. W. NUTT/ARO,IN	VOLUME 01
J3A /	SPACE SHUTTLE SO	D OTS (SPIKE NOSE	E SPACE SHUTTLE S		4.0	SUPERSONIC WIN	C.	JUNE, 1977
IH47	LID ROCKET BOOSTE	ET)	OLID ROCKET BOOST			D TUNNEL (A)	D. A. SARVER	
CR-151,075	R AERODYNAMIC HEA		ER, BOTH ISOLATED				C. R. EDWARDS	
	TING CHARACTERIST		AND IN THE PRESE				-DMS	
	ICS OBTAINED USIN		NCE OF THE ORBITE					
	G THE 0.0175-SCAL		R AND EXTERNAL TA					
	E MODEL 60-OTS IN		NK, DURING THE AS					
	AEDC TUNNEL A DU		CENT PHASE OF ITS					
	RING TESTS IH47		FLIGHT PROFILE					
AEDC -	RESULTS OF AN INV	VEHICLE 5, TO INC	TO OBTAIN HEAT TR	HEAT-TRANS	0.0175 /	ROCKWELL/	W. H. DYE/RI	DMS-DR-2312
SWTA -	ESTIGATION OF THE	LUDE SRB ALONE AN	ANSFER DATA ON TH		3.0 -	AEDC -	K. W. NUTT/ARO,IN	VOLUME 02
J3A /	SPACE SHUTTLE SO	D OTS (SPIKE NOSE	E SPACE SHUTTLE S		4.0	SUPERSONIC WIN	C.	JULY, 1977
IH47	LID ROCKET BOOSTE	ET)	OLID ROCKET BOOST			D TUNNEL (A)	D. A. SARVER	
CR-151,076	R AERODYNAMIC HEA		ER, BOTH ISOLATED				C. R. EDWARDS	
	TING CHARACTERIST		AND IN THE PRESE				-DMS	
	ICS OBTAINED USIN		NCE OF THE ORBITE					
	G THE 0.0175-SCAL		R AND EXTERNAL TA					
	E MODEL 60-OTS IN		NK, DURING THE AS					
	AEDC TUNNEL A DU		CENT PHASE OF ITS					
	RING TESTS IH47		FLIGHT PROFILE					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF WIND T	.0275 SCALE SPACE	TO VERIFY THE THE	HEAT-TRANS	.0275 /	MSFC /	WILLIAM K. LOCKMA	DMS-DR-2313
3.5HWT -	UNNEL TESTS TO DE	SHUTTLE EXTERNAL	ORETICAL PREDICTI		5.2 -	ARC -	N/ARC,	VOLUME 01
215 /	TERMINE HEAT TRAN	TANK	ONS USED IN THE G		5.3	3.5-FOOT HYPER	HARRY CARROLL/MMA	MARCH, 1977
FH14	SFER RATES ON A .		ENERATION OF THE			SONIC WIND TUN	R. H. LINDAHL	
CR-151,041	0275 SCALE SPACE		THERMAL ENVIRONME			NEL	-DMS	
	SHUTTLE EXTERNAL		NTS FOR THE LO2 T					
	TANK WITH A 10 DE		ANK AND TO MORE A					
	G/40 DEG DOUBLE C		CCURATELY DEFINE					
	ONE-OGIVE NOSE IN		THE RECOVERY FACT					
	THE NASA/ARC 3.5		ORS FOR REDUCING					
	HYPERSONIC TUNNE		THE HEAT TRANSFER					
	L		DATA FROM FH13					
ARC -	RESULTS OF WIND T	.0275 SCALE SPACE	TO VERIFY THE THE	HEAT-TRANS	.0275 /	SFC /	WILLIAM K. LOCKMA	DMS-DR-2313
3.5HWT -	UNNEL TESTS TO DE	SHUTTLE EXTERNAL	ORETICAL PREDICTI		5.2 -	ARC -	N/ARC,	VOLUME 02
215 /	TERMINE HEAT TRAN	TANK	ONS USED IN THE G		5.3	3.5-FOOT HYPER	HARRY CARROLL/MMA	MARCH, 1977
FH14	SFER RATES ON A .		ENERATION OF THE			SONIC WIND TUN	R. H. LINDAHL	
CR-151,042	0275 SCALE SPACE		THERMAL ENVIRONME			NEL	-DMS	
	SHUTTLE EXTERNAL		NTS FOR THE LO2 T					
	TANK WITH A 10 DE		ANK AND TO MORE A					
	G/40 DEG DOUBLE C		CCURATELY DEFINE					
	ONE-OGIVE NOSE IN		THE RECOVERY FACT					
	THE NASA/ARC 3.5		ORS FOR REDUCING					
	HYPERSONIC TUNNE		THE HEAT TRANSFER					
	L		DATA FROM FH13					
ARC -	RESULTS OF WIND T	.0275 SCALE SPACE	TO VERIFY THE THE	HEAT-TRANS	.0275 /	SFC /	WILLIAM K. LOCKMA	DMS-DR-2313
3.5HWT -	UNNEL TESTS TO DE	SHUTTLE EXTERNAL	ORETICAL PREDICTI		5.2 -	ARC -	N/ARC,	VOLUME 03
215 /	TERMINE HEAT TRAN	TANK	ONS USED IN THE G		5.3	3.5-FOOT HYPER	HARRY CARROLL/MMA	MARCH, 1977
FH14	SFER RATES ON A .		ENERATION OF THE			SONIC WIND TUN	R. H. LINDAHL	
CR-151,043	0275 SCALE SPACE		THERMAL ENVIRONME			NEL	-DMS	
	SHUTTLE EXTERNAL		NTS FOR THE LO2 T					
	TANK WITH A 10 DE		ANK AND TO MORE A					
	G/40 DEG DOUBLE C		CCURATELY DEFINE					
	ONE-OGIVE NOSE IN		THE RECOVERY FACT					
	THE NASA/ARC 3.5		ORS FOR REDUCING					
	HYPERSONIC TUNNE		THE HEAT TRANSFER					
	L		DATA FROM FH13					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 754 / OA176 CR-151,406	INVESTIGATION OF SUPPORT SYSTEM EFFECTS ON ORBITER LOW SPEED AEORDYNAMIC CHARACTERISTICS USING 0.0405-SCALE MODEL 43-0 IN THE NAAL LOW SPEED WIND TUNNEL	LANDING	DETERMINATION OF EFFECTS OF VARIOUS TUNNEL MOUNT CONFIGURATIONS ON THE FORCE COEFFICIENTS AND PRESSURES ON THE AFT TAIL CONE OF THE ORBITER IN THE LANDING CONFIGURATION	FORCE	.0405 / 0.20 - 0.20	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	M. T. HUGHES/RI S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2314 FEB., 1981
NRLAD - 7TWT - 297 / IA141 CR-147,623	RESULTS OF AN INVESTIGATION OF REYNOLDS NUMBER EFFECTS ON INTEGRATED VEHICLE ELEVON HINGE MOMENTS AND WING PANEL LOADS OBTAINED WITH 0.010-SCALE MODEL 72-OTS IN THE ROCKWELL TRISONIC WIND TUNNEL	0.010-SCALE VL70-000140C INTEGRATED SPACE SHUTTLE LAUNCH VEHICLE	TO OBTAIN REYNOLDS NUMBER EFFECTS ON ORBITER ELEVON HINGE MOMENTS AND WING BENDING/TORSIONAL MOMENTS	FORCE	0.010 / 0.6 - 1.25	ROCKWELL/ NRLAD 7-FOOT TRISONIC WIND TUNNEL	R.C.MENNELL/RI R. H. LINDAHL -DMS	DMS-DR-2315 AUGUST, 1976
ARC - 14-TWT - 143-1 / IA137 CR-147.622	RESULTS OF TEST IA137 IN THE NASA/ARC 14 FOOT TRANSONIC WIND TUNNEL OF THE 0.07 SCALE EXTERNAL TANK FOREBODY (MODEL 68-T) TO DETERMINE AUXILIARY AERODYNAMIC DATA SYSTEM FEASIBILITY	FULL 331 INCH DIAMETER FOREBODY AN 80% (264.8 INCH) OF FULL DIAMETER FOREBODY BICONIC NOSE PROBE	TO EXAMINE THE FEASIBILITY OF THE AUXILIARY AERODYNAMIC DATA SYSTEM (AADS) FOR DETERMING ANGLES OF ATTACK AND SIDESLIP DURING BOOST FLIGHT	FORCE PRESSURE	0.07 / 0.55 - 1.15	ROCKWELL/ ARC - 14-FOOT TRANSONIC WIND TUNNEL	D.E. THORNTON/ROCKWELL INTERNATIONAL P.K. MILLER/ ROCKWELL INTERNATIONAL D. A. SARVER G. W. KLUG -DMS	DMS-DR-2316 SEPT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF TESTS	0.04-SCALE (83-O)	TO DETERMINE RCS	HEAT-TRANS	0.04 /	ROCKWELL/	W.H. DYE/RI	DMS-DR-2317
3.5HWT -	TO DETERMINE REAC	ORBITER	NOZZLE EFFECTS ON		5.2 -	ARC -	R. H. LINDAHL	JAN., 1980
216 /	TION CONTROL SYST		THE ORBITER FORE		5.3	3.5-FOOT HYPER	-DMS	
OH53A	EM (RCS) NOZZLE E		BODY ASCENT AEROD			SONIC WIND TUN		
CR-151,787	FFECTS ON THE ORB		YNAMIC HEATING RA			NEL		
	ITER FOREBODY ASC		TES					
	ENT AERODYNAMIC H							
	EATING RATES USIN							
	G A 0.04-SCALE MO							
	DEL (83-O) IN THE							
	AMES RESEARCH CE							
	NTER 3.5 FOOT HYP							
	ERSONIC WIND TUNN							
	EL (OH53A)							
LARC -	HIGH SUPERSONIC S	ORBITER-140A/B/C=	DETERMINATION OF	FORCE	2.86 -	LARC /	B. SPENCER, G. W	DMS-DR-2318
UPWT -	TABILITY AND CONT	B26 C9 E43 F8 M16	CONTROL SURFACE E		4.60	LARC -	ARE/LARC	VOLUME 01
1173 /	ROL CHARACTERISTI	N28 R5 V8 W	FFECTIVENESS AT H			UNITARY PLAN W	J. W. BALL	DEC., 1976
LA75	CS OF A 0.015-SCA		IGH SUPERSONIC MA			IND TUNNEL	D.B. WATSON	
CR-147,646	LE (REMOTELY CONT		CH NUMBERS				-DMS	
	ROLLED ELEVON) MO							
	DEL 44-O SPACE SH							
	UTTLE ORBITER TES							
	TED IN THE NASA/L							
	ARC 4-FOOT UPWT (							
	LEG 2) (LA75)							
LARC -	HIGH SUPERSONIC S	ORBITER-140A/B/C=	DETERMINATION OF	FORCE	2.86 -	LARC /	B. SPENCER, G. W	DMS-DR-2318
UPWT -	TABILITY AND CONT	B26 C9 E43 F8 M16	CONTROL SURFACE E		4.60	LARC -	ARE/LARC	VOLUME 02
1173 /	ROL CHARACTERISTI	N28 R5 V8 W	FFECTIVENESS AT H			UNITARY PLAN W	J. W. BALL	DEC., 1976
LA75	CS OF A 0.015-SCA		IGH SUPERSONIC MA			IND TUNNEL	D.B. WATSON	
CR-147,647	LE (REMOTELY CONT		CH NUMBERS				-DMS	
	ROLLED ELEVON) MO							
	DEL 44-O SPACE SH							
	UTTLE ORBITER TES							
	TED IN THE NASA/L							
	ARC 4-FOOT UPWT (							
	LEG 2) (LA75)							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN - 48HST - IB9 / 96HST - IH43 CR-151,771	HEAT TRANSFER AND PRESSURE TESTS ON A 0.01-SCALE SPACE SHUTTLE MODEL (59-OT) IN THE CALSPAN HYPERVELOCITY SHOCK TUNNELS (IH43)	.01-SCALE SPACE SHUTTLE ORB/ET 59-OT	TO DETERMINE ASCENT HYPERSONIC HEATING RATES AND PRESSURE DISTRIBUTIONS ON AN UPDATED CONFIGURATION (MCR 500) OF THE ORBITER/EXTERNAL TANK	HEAT-TRANS	.01 / 7.5 - 20.0	ROCKWELL/ CALSPAN - 48-INCH HYPERSONIC SHOCK TUNNEL 96-INCH HYPERSONIC SHOCK TUNNEL	P.R.CARROLL/RI, C.E. WITTLIFF/CALSPAN D.W.HERSEY R. H. LINDAHL -DMS	DMS-DR-2319 JUNE, 1979
AEDC - HWTB - D8A / OA169 CR-151,390	RESULTS OF TESTS USING A 0.0125-SCALE MODEL(70-OT)OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (OA169)	ORBITER 0.0125 70-OT	TO OBTAIN INTERACTION EFFECTS OF THE RCS THRUSTER JET PLUMES ON SSV AERODYNAMICS DURING RETURN-TO-LAUNCH-SITE(RTLS) ABORT FLIGHT PHASE	FORCE	0.0125 / 5.9 - 5.9	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.J. DAILEDA, J. MARROQUIN/RI R. H. LINDAHL J. E. VAUGHN -DMS	DMS-DR-2320 VOLUME 01 FEB., 1978
AEDC - HWTB - D8A / OA169 CR-151,391	RESULTS OF TESTS USING A 0.0125-SCALE MODEL(70-OT)OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (OA169)	ORBITER 0.0125 70-OT	TO OBTAIN INTERACTION EFFECTS OF THE RCS THRUSTER JET PLUMES ON SSV AERODYNAMICS DURING RETURN-TO-LAUNCH-SITE(RTLS) ABORT FLIGHT PHASE	FORCE	0.0125 / 5.9 - 5.9	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.J. DAILEDA, J. MARROQUIN/RI R. H. LINDAHL J. E. VAUGHN -DMS	DMS-DR-2320 VOLUME 02 FEB., 1978
AEDC - HWTB - D8A / OA169 CR-151,392	RESULTS OF TESTS USING A 0.0125-SCALE MODEL(70-OT)OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (OA169)	ORBITER 0.0125 70-OT	TO OBTAIN INTERACTION EFFECTS OF THE RCS THRUSTER JET PLUMES ON SSV AERODYNAMICS DURING RETURN-TO-LAUNCH-SITE(RTLS) ABORT FLIGHT PHASE	FORCE	0.0125 / 5.9 - 5.9	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.J. DAILEDA, J. MARROQUIN/RI R. H. LINDAHL J. E. VAUGHN -DMS	DMS-DR-2320 VOLUME 03 FEB., 1978

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - V41B-E9A / OH69 CR-151,410	RESULTS OF TEST OH69 OBTAINED IN THE AEDC VKF HYPERSONIC TUNNEL B USING THE INFRARED SCANNING METHOD TO OBTAIN HEAT TRANSFER DATA ON THE 0.040 SCALE MODEL 82-0 OF THE SPACE SHUTTLE FOREBODY	ORBITER VEHICLE FOREBODY	TO DETERMINE THE INFLUENCE OF THERMAL PROTECTION TILE ROUGHNESS ON WINDWARD SURFACE BOUNDARY-LAYER TRANSITION.	HEAT-TRANS	0.040 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J. C. MARTINEZ + W. H. DYE/RI J. E. VAUGHN -DMS	DMS-DR-2321 VOLUME 01 AUGUST, 1978
AEDC - HWTB - V41B-E9A / OH69 CR-151,411	RESULTS OF TEST OH69 OBTAINED IN THE AEDC VKF HYPERSONIC TUNNEL B USING THE INFRARED SCANNING METHOD TO OBTAIN HEAT TRANSFER DATA ON THE 0.040 SCALE MODEL 82-0 OF THE SPACE SHUTTLE FOREBODY	ORBITER VEHICLE FOREBODY	TO DETERMINE THE INFLUENCE OF THERMAL PROTECTION TILE ROUGHNESS ON WINDWARD SURFACE BOUNDARY-LAYER TRANSITION.	HEAT-TRANS	0.040 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J. C. MARTINEZ + W. H. DYE/RI J. E. VAUGHN -DMS	DMS-DR-2321 VOLUME 02 AUGUST, 1978
NRLAD - LSWT - 757 / OA228 CR-160,847	RESULTS OF TEST OA228 USING THE SSV VEHICLE 102 0.10 SCALE FOREBODY MODEL NO. 57-0 IN THE NAAL LOW SPEED WIND TUNNEL	SPACE SHUTTLE ORBITER VEHICLE 102	TO RESOLVE DIFFERENCES IN AIR DATA PROBE AND FLIGHT TEST PROBE PRESSURE DATA OBTAINED DURING WIND TUNNEL TESTS OA174 AND OA224	FORCE	.18 O- .25 1	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R. C. MENNELL, A. L. MENA, R. B. RUSSELL / RI W. B. MEINDERS -DMS	DMS-DR-2322 NOV., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1152 / IA94A CR-151,039	RESULTS OF INVEST IGATIONS CONDUCTE D IN THE LARC 4-F OOT UNITARY PLAN WIND TUNNEL LEG NO. 1 USING THE O .010-SCALE 72-OTS MODEL OF THE SPA CE SHUTTLE INTEGR ATED VEHICLE	0.010-SCALE 72-OT S MODEL	AERO-LOADS INVEST IGATIONS ON THE U PDATED CONFIGURAT ION-5 SPACE SHUTT LE;FULL SIMULATIO N OF UPDATED VEHI CLE PROTUBERANCES AND ATTACH HARDW ARE WAS USED.	FORCE	0.010 / 1.55 - 2.00	ROCKWELL/ LARC - UNITARY PLAN W IND TUNNEL	M.E. NICHOLDS,P.J . HAWTHRONE,J.T. HAMILTON,P.K. MIL LER/RI D.C. FREEMAN/LARC R. H. LINDAHL -DMS	DMS-DR-2323 FEB., 1977
LARC - UPWT - 1177 / IA94B CR-151,040	RESULTS OF INVES IGATIONS CONDUC D IN THE LARC 4 F OOT UNITARY PLA WIND TUNNEL LEG NO. 2 USING THE [illegible] .010-SCALE 72-OTS MODEL OF THE SPA CE SHUTTLE INTEGR ATED VEHICLE	0.010-SCALE 72-OT S MODEL	AERO-LOADS INVEST IGATIONS ON THE U PDATED CONFIGURAT ION-5 SPACE SHUTT LE LAUNCH VEHICLE ; FULL SIMULATION OF UPDATED VEHIC LE PROTUBERANCES AND ATTACH HARDWA RE WAS USED.	FORCE	0.010 / 2.50 - 4.50	ROCKWELL/ LARC - UNITARY PLAN W IND TUNNEL	M.E. NICHOLS,P.J. HAWTHORNE,J.T. H AMILTON,P.K. MILL ER/RI D.C. FREEMAN/LARC R. H. LINDAHL -DMS	DMS-DR-2324 FEB., 1977
MSFC - 14TWT - 620 / SA14FA CR-147,645	AERODYNAMIC CHARA CTERISTICS OF A O .00563 SCALE 142- INCH DIAMETER SOL ID ROCKET BOOSTER (MSFC MODEL 449 AND 480) WITH SID E MOUNTED STINGS IN THE NASA/MSFC 14 INCH TRISONIC WIND TUNNEL	CONF. 139	TO DETERMINE THE ENTRY STATIC STAB ILITY OF THE SRB.	FORCE	0.00563 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY/MSFC V. W. SPARKS G. G. MCDONALD -DMS	DMS-DR-2325 NOV., 1976

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 749 / IA93 CR-151,037	RESULTS OF INVESTIGATIONS CONDUCTED IN THE LARC 8-FOOT TRANSONIC PRESSURE TUNNEL USING THE 0.010-SCALE 72-OTS MODEL OF THE SPACE SHUTTLE INTEGRATED VEHICLE	0.010-SCALE 72-OTS MODEL	AERO-LOADS INVESTIGATION ON THE UPDATED CONFIGURATION-5 SPACE SHUTTLE; FULL SIMULATION OF UPDATED VEHICLE PROTUBERANCES AND ATTACH HARDWARE WERE USED.	FORCE	0.010 / 0.6 - 1.205	ROCKWELL/ LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	M.E.NICHOLS,P.J. HAWTHORNE,J.T. HAMILTON,P.K. MILLER/RI D.C. FREEMAN/LARC R. H. LINDAHL -DMS	DMS-DR-2326 VOLUME 01 JAN., 1977
LARC - 8TPT - 749 / IA93 CR-151,038	RESULTS OF INVESTIGATIONS CONDUCTED IN THE LARC 8-FOOT TRANSONIC PRESSURE TUNNEL USING THE 0.010-SCALE 72-OTS MODEL OF THE SPACE SHUTTLE INTEGRATED VEHICLE	0.010-SCALE 72-OTS MODEL	AERO-LOADS INVESTIGATION ON THE UPDATED CONFIGURATION-5 SPACE SHUTTLE; FULL SIMULATION OF UPDATED VEHICLE PROTUBERANCES AND ATTACH HARDWARE WERE USED.	FORCE	0.010 / 0.6 - 1.205	ROCKWELL/ LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	M.E.NICHOLS,P.J. HAWTHORNE,J.T. HAMILTON P.K. MILLER/RI D.C. FREEMAN/LARC R. H. LINDAHL -DMS	DMS-DR-2326 VOLUME 02 FEB., 1977
AEDC - HWTB - D9A / IA22 CR-151,079	RESULTS OF TESTS USING 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B	CONFIG. 102 ORBITER AND ET, DESIGNATED MODEL 70-OT	TO OBTAIN INTERACTION EFFECTS OF RCS THRUSTER JET PLUMES ON SSV AERO	FORCE	5.9 -	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	L. L. TRIMMER/ARO J. J. DAILEDA, J. MARROQUIN, H. S. DRESSER/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2327 VOLUME 01 JULY, 1977
AEDC - HWTB - D9A / IA22 CR-151,080	RESULTS OF TESTS USING 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B	CONFIG. 102 ORBITER AND ET, DESIGNATED MODEL 70-OT	TO OBTAIN INTERACTION EFFECTS OF RCS THRUSTER JET PLUMES ON SSV AERO	FORCE	5.9 -	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	L. L. TRIMMER/ARO J. J. DAILEDA, J. MARROQUIN, H. S. DRESSER/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2327 VOLUME 02 AUGUST, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - D9A / IA22 CR-151,081	RESULTS OF TESTS USING 0.0125-SCAL E MODEL (70-OT) O F THE SPACE SHUTT LE VEHICLE ORBITE R IN THE AEDC VKF TUNNEL B	CONFIG. 102 ORBIT ER AND ET. DESIGN ATED MODEL 70-OT	TO OBTAIN INTERAC TION EFFECTS OF R CS THRUSTER JET P LUMES ON SSV AERO	FORCE	5.9 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	L. L. TRIMMER/ARO J. J. DAILERA, J. MARROQUIN, H. S. DRESSER/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2327 VOLUME 03 AUGUST, 1977
LARC - CFHT - 105 / LA34 TND-8233	EFFECT OF A SURFA CE-TO-GAP TEMPERA TURE DISCONTINUIT Y ON THE HEAT TRA NSFER TO REUSABLE SURFACE INSULATI ON TILE GAPS	REUSABLE SURFACE INSULATION TILE G APS	TO DETERMINE EFFE CT OF A SURFACE-T O-WALL TEMPERATUR E DISCONTINUITY O N THE HEAT TRANSF ER WITHIN SPACE S HUTTLE, RSI, TILE GAPS SUBMERGED I N A THICK TURBULE NT BOUNDARY LAYER	HEAT-TRANS	1.0 / 10.3 -	LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL	D. A. THROCKMORTO N/LARC J. W. BALL M. M. MOSER JR. -DMS	DMS-DR-2328 AUGUST, 1976
LARC - 16TT - 312 / OA224 CR-160,837	CALBIRATION RESUL TS OF THE BASELIN E AIR DATA PROBES AT THE LANGLEY 1 6-FOOT TRANSONIC WIND TUNNEL USING A 0.10 SCALE ORB ITER FOREBODY MOD EL 102 LINES (OA2 24)	SSV ORBITER (MODE L 57-0) FOREBODY W/ ADP, FTP, AND ADP AND FTP	TO PROVIDE CALIBR ATION OF THE AIR DATA PROBES	FORCE	0.4 - 1.30	ROCKWELL/ LARC - 16-FOOT TRANSO NIC TUNNEL	V. ESPARZA, D.E. THORN TON/ROCKWELL H. AUGUST/ROCKWEL L S. R. HOULIHAN J. E. VAUGHN -DMS	DMS-DR-2329 AUGUST, 1981
AEDC - HWTB - 524 / OH52 CR-147,637	RESULTS OF A FLOW FIELD SURVEY CON DUCTED USING THE 0.0175 SCALE ORBI TER MODEL 29-0 IN THE AEDC VKF TUN NEL B DURING TEST OH52	CONF. 4, MODEL 29 -0	TO SIMULATE ATMOS PHERIC ENTRY BY I NVESTIGATING SHOC K AND BOUNDARY LA YERS ON LOWER ORB ITER SURFACE	HEAT-TRANS	0.0175 / 7.82 -	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	B. J. HERRERA/RI L. D. CARTER, W. R. MARTINDALE, C. E. KAUL/ARO M. M MOSER JR. -DMS	DMS-DR-2330 OCT., 1976

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11,97,87-074-1 / 11TWT - SA11F CR-160,838	STATIC STABILITY AND PRESSURE DATA FROM WIND TUNNEL TESTS OF A .028-SCALE (MSFC MODEL 483) SPACE SHUTTLE SRB AT REENTRY ATTITUDES IN THE NASA/ARC UNITARY PLAN WIND TUNNELS (SA11F)	SRB-WITH HEAT SHIELD(SOLID) SRB-W/O HEAT SHIELD SRB-WITH HEAT SHEILD (FLEXIBLE)	TO DETERMINE THE AERODYNAMIC STABILITY CHARACTERISTICS AND PRESSURE DISTRIBUTION OF THE SRB RENTRY CONFIGURATION	FORCE PRESSURE	0.028 / 1.96 - 3.48	MSFC / ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	W.F.BRADDOCK, G.D.STREBY/NORTHROP SERVICES J.D.JOHNSON/NASA-MFSC J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2331 VOLUME 01 OCT., 1981
ARC - 11,97,87-074-1 / 11TWT - SA11F CR-160,839	STATIC STABILITY AND PRESSURE DATA FROM WIND TUNNEL TESTS OF A .028-SCALE (MSFC MODEL 483) SPACE SHUTTLE SRB AT REENTRY ATTITUDES IN THE NASA/ARC UNITARY PLAN WIND TUNNELS (SA11F)	SRB-WITH HEAT SHIELD(SOLID) SRB-W/O HEAT SHIELD SRB-WITH HEAT SHEILD (FLEXIBLE)	TO DETERMINE THE AERODYNAMIC STABILITY CHARACTERISTICS AND PRESSURE DISTRIBUTION OF THE SRB RENTRY CONFIGURATION	FORCE PRESSURE	0.028 / 1.96 - 3.48	MSFC / ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	W.F.BRADDOCK, G.D.STREBY/NORTHROP SERVICES J.D.JOHNSON/NASA-MFSC J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2331 VOLUME 02 OCT., 1981
ARC - 14-TWT - 121 / CA13 CR-151,373	RESULTS OF AERODYNAMIC FORCE AND MOMENT TESTS OF O.03-SCALE MODELS (AX1319I-3 AND 45-0) OF THE SPACE SHUTTLE ORBITER AND CARRIER IN THE NASA/ARC 14-FOOT TRANSONIC WIND TUNNEL (CA13)	ORBITER- TAILCONE-OFF, TAILCONE ON -TC19, ORBITER- TAILCONE-ON, TC23, STING MOUNTED 747/1 747/1 + S1-12 (SPEED BRAKE DEPLOYED)	TO FORM A PRE-LAUNCH AND FREE AIR DATA BASE FOR PLANNED SEPARATION TESTS OF THE CARRIER ALT CONFIGURATION.	FORCE	0.03 / 0.3 - 0.6	ROCKWELL/ ARC - 14-FOOT TRANSONIC WIND TUNNEL	R.L.GILLINS/ROCKWELL V.ESPARZA/ROCKWELL D. A. SARVER G. W. KLUG -DMS	DMS-DR-2332 OCT., 1977

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ARC - 11TWT - 187-1 / OA175 CR-151,374	WIND TUNNEL TEST OA175 OF THE 0.03 O-SCALE SSV ORBIT ER MODEL (47-O) IN THE 11 X 11-FO OT LEG OF THE NAS A/ARC UNITARY PLA N WIND TUNNEL (OA 175)	01+TC23'ALT' CONF IGURATION WITH TA ILCONE 01+TC23+G19 'ALT' WITH LANDING GEA R DEPLOYED 01 'ALT' WITHOUT TAILCONE 01 = AT132 - PR1 '102' REENTRY CON FIGURATION	VERIFY ALT VEHICL E STABILITY AND C ONTROL CHARACTERI STICS WITH TAIL- CONE ON. DETERMIN E ELEVON, RUDDER/ SPEEDBRAKE, AND B ODY FLAP HINGE MOMENTS WITH SEAL ED HINGELINES. EF FECTS OF RN/L AND DEPLOYED LANDING GEAR/DOORS ON VEH ICLE STABILITY AN D CONTROL. TAILCO NE PRESSURES	FORCE PRESSURE	0.030 / 0.4 - 1.2	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	T.J.DZIUBALA/RI R.R.BURROWS/RI M. M. MANN -DMS	DMS-DR-2333 VOLUME 01 NOV., 1977
ARC - 11TWT - 187-1 / OA175 CR-151,375	WIND TUNNEL TEST OA175 OF THE 0.03 O-SCALE SSV ORBIT ER MODEL (47-O) IN THE 11 X 11-FO OT LEG OF THE NAS A/ARC UNITARY PLA N WIND TUNNEL (OA 175)	01+TC23'ALT' CONF IGURATION WITH TA ILCONE 01+TC23+G19 'ALT' WITH LANDING GEA R DEPLOYED 01 'ALT' WITHOUT TAILCONE 01 = AT132 - PR1 '102' REENTRY CON FIGURATION	VERIFY ALT VEHICL E STABILITY AND C ONTROL CHARACTERI STICS WITH TAIL- CONE ON. DETERMIN E ELEVON, RUDDER/ SPEEDBRAKE, AND B ODY FLAP HINGE MOMENTS WITH SEAL ED HINGELINES. EF FECTS OF RN/L AND DEPLOYED LANDING GEAR/DOORS ON VEH ICLE STABILITY AN D CONTROL. TAILCO NE PRESSURES	FORCE PRESSURE	0.030 / 0.4 - 1.2	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	T.J.DZIUBALA/RI R.R.BURROWS/RI M. M. MANN -DMS	DMS-DR-2333 VOLUME 02 DEC., 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	WIND TUNNEL TEST	01+TC23'ALT' CONF	VERIFY ALT VEHICL	FORCE	0.030 /	ROCKWELL/	T.J.DZIUBALA/RI	DMS-DR-2333
11TWT -	OA175 OF THE 0.03	IGURATION WITH TA	E STABILITY AND C	PRESSURE	0.4 -	ARC -	R.R.BURROWS/RI	VOLUME 03
187-1 /	O-SCALE SSV ORBIT	ILCONE	ONTROL CHARACTERI		1.2	11-FOOT TRANSO	M. M. MANN	DEC., 1977
OA175	ER MODEL (47-O)	01+TC23+G19 'ALT'	STICS WITH TAIL-			NIC WIND TUNNE	-DMS	
CR-151,376	IN THE 11 X 11-FO	WITH LANDING GEA	CONE ON. DETERMIN			L (UNITARY)		
	OT LEG OF THE NAS	R DEPLOYED	E ELEVON, RUDDER/					
	A/ARC UNITARY PLA	01 'ALT' WITHOUT	SPEEDBRAKE, AND B					
	N WIND TUNNEL (OA	TAILCONE	ODY FLAP HINGE					
	175)	01 = AT132 - PR1	MOMENTS WITH SEAL					
		'102' REENTRY CON	ED HINGELINES. EF					
		FIGURATION	FECTS OF RN/L AND					
			DEPLOYED LANDING					
			GEAR/DOORS ON VEH					
			ICLE STABILITY AN					
			D CONTROL. TAILCO					
			NE PRESSURES					
AEDC -	AN INVESTIGATION	REENTRY CONFIG. W	TO DETERMINE ENTR	FORCE	0.00548 /	MSFC /	P. E. RAMSEY/MSFC	DMS-DR-2334
PWT4T -	OF THE AERODYNAMI	ITH ALL MAJOR PRO	Y STATIC STABILIT		0.4 -	AEDC -	V. W. SPARKS	NOV., 1976
E3A /	C CHARACTERISTICS	TUBERANCES	Y OF SRB		1.2	TRANSONIC PROP	-DMS	
SA16F	OF A 0.00548 SCA					ULSION WIND TU		
CR-147,648	LE MODEL (MODEL N					NNEL (PWT-4T)		
	O. 486) OF THE SP							
	ACE SHUTTLE 146-I							
	NCH DIAMETER SOLI							
	D ROCKET BOOSTER							
	AT ANGLES OF ATTA							
	CK FROM 113 TO 18							
	O DEGREES IN THE							
	AEDC PWT 4-FOOT T							
	RANSONIC WIND TUN							
	NEL							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC -	RESULTS OF EXPERI	VEHICLE 5	THE PURPOSE OF TH	FORCE	0.004 /	ROCKWELL/	E.C. ALLEN/ROCKWE	DMS-DR-2335
14TWT -	MENTAL INVESTIGAT	MODEL 74-OTS	IS TEST WAS TO OB		0.60 -	MSFC -	LL	DEC., 1979
641 /	IONS IN THE MSFC		TAIN INFORMATION		3.48	14-INCH TRISON	J. E. VAUGHN	
646 /	TWT TO DETERMINE		ON STING/BODY INT			IC WIND TUNNEL	G. W. KLUG	
IA140A/B	EFFECTS OF A MULT		ERFERENCE, VERIFY				-DMS	
CR-151,783	IPLE STING SUPPOR		STING ASSEMBLY D					
	T SYSTEM ON THE M		ESIGN, DETERMINE					
	ATED VEHICLE AERO		EFFECT OF VERTICA					
	DYNAMICS UTILIZIN		L SEPARATION ON A					
	G A 0.004 SCALE (		ERO CHARACTERISTI					
	74-OTS, 77-O) SHU		CS OF ET PLUS SRB					
	TTLE VEHICLE 5 (I		AND ORBITER AND					
	A140 A/B)		EFFECTS OF STING					
			ON ELEVON HINGE M					
			OMENTS					
LARC -	INVESTIGATION OF	LARC .0098-SCALE	TO OBTAIN ORBITER	FORCE	1.5-	LARC /	G. WARE/LARC	DMS-DR-2336
UPWT -	THE HIGH ANGLE OF	CAST ALUMINUM	AERO CHARACTERIS		4.5	LARC -	B. SPENCER,JR/LAR	MAY, 1983
1345 /	ATTACK AERODYNAM		TICS AT ANGLES OF			UNITARY PLAN W	C	
1390 /	ICS OF A SPACE SH		ATTACK FROM 25 T			IND TUNNEL	J. E. VAUGHN	
LA145	UTTLE ORBITER(LAR		O 60 DEGREES				B. J. BURST	
CR-167,375	C .0098 SCALE MOD						-DMS	
	EL) IN THE LARC U							
	PWT AT MACH NUMBE							
	RS FROM 1.5 TO 4.							
	5(LA145)							
NRLAD -	A VERIFICATION ST	FLIGHT TEST PROBE	TO VERIFY THE CAL	PRESSURE	0.186-	ROCKWELL/	J. G. LEFEVRE/RI	DMS-DR-2337
LSWT -	UDY OF THREE AMES	CALIBRATION	IBRATION DATA OBT		0.262	NRLAD -	D.W.HERSEY	DEC., 1979
759 /	RESEARCH CENTER		AINED USING THE A			LOW SPEED WIND	G. R. LUTZ	
OA236	PITOT-STATIC PROB		MES RESEARCH CENT			TUNNEL	-DMS	
CR-151,786	ES IN THE ROCKWEL		ER PROBES					
	L INTERNATIONAL N							
	AAL LOW SPEED WIN							
	D TUNNEL							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
UW - LSWT - 1170 / CS3 CR-147,639	RESULTS OF THE LOW SPEED AEROELASTIC BUFFET TEST WITH A 0.046-SCALE MODEL (747-AX1322D-3/ORBITER 8-0) OF THE 747 CAM/ORBITER IN THE UNIVERSITY OF WASHINGTON WIND TUNNEL	AX1322D-3,ORBITER MODEL 8-0	TO ASSES POTENTIAL BUFFET PROBLEMS RESULTING FROM ORBITER WAKE CHARACTERISTICS WITH TAILCONE OFF, TO PROVIDE DESIGN LOADS AND ACCELERATION ENVIRONMENTS, TO DEVELOP BUFFET SENSITIVITY DATA TO VARIOUS AEROD	STRUCT-DYN	0.046 /	BOEING / UW - LOW SPEED WIND TUNNEL	R. L. GILLENS/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2338 NOV., 1976
AEDC - HWTB - J7A / OH98 CR-160,501	RESULTS OF TESTS ON A 0.0175-SCALE MODEL (60-0) OF THE SPACE SHUTTLE ORBITER TO DETERMINE RE-ENTRY MODE CONVECTIVE HEAT TRANSFER RATES ON THE UPPER WING SURFACE AND SSME NOZZLES IN THE AEDC VKF 'B' HYPERSONIC WIND TUNNEL (OH98)	0.0175-SCALE THIN-SKIN THERMOCOUPLE SHUTTLE ORBITER 60-0	1)SPANWISE HEATING ON UPPER WING SURFACE, 2)EFFECT OF HAT BAND PROTUBERANCES AND LH2 COOLING LINES ON SSME NOZZLE HEATING, AND 3)UPDATE CLEAN NOZZLE HEATING WITH BODY FLAP AND ELEVON DEFLECTIONS	HEAT-TRANS	0.0175 / 7.90 - 8.00	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	C.L. BERTHOLD, J. MARROQUIN/RI D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2340 VOLUME 01 SEPT., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF TESTS	0.0175-SCALE THIN	1)SPANWISE HEATIN	HEAT-TRANS	0.0175 /	ROCKWELL/	C.L. BERTHOLD, J.	DMS-DR-2340
HWTB -	ON A 0.0175-SCALE	-SKIN THERMOCOUPL	G ON UPPER WING S		7.90 -	AEDC -	MARROQUIN/RI	VOLUME 02
J7A /	MODEL (60-0) OF	E SHUTTLE ORBITER	URFACE, 2)EFFECT		8.00	HYPERSONIC WIN	D.W.HERSEY	SEPT., 1980
OH98	THE SPACE SHUTTLE	60-0	OF HAT BAND PROTU			D TUNNEL (B)	G. R. LUTZ	
CR-160,502	ORBITER TO DETER		BERANCES AND LH2				-DMS	
	MINE RE-ENTRY MOD		COOLING LINES ON					
	E CONVECTIVE HEAT		SSME NOZZLE HEATI					
	TRANSFER RATES O		NG, AND 3)UPDATE					
	N THE UPPER WING		CLEAN NOZZLE HEAT					
	SURFACE AND SSME		ING WITH BODY FLA					
	NOZZLES IN THE AE		P AND ELEVON DEFL					
	DC VKF 'B' HYPERS		ECTIONS					
	ONIC WIND TUNNEL							
	(OH98)							
TBCA -	RESULTS OF TESTS	747CAM/ORBITER	TO OBTAIN DYNAMI	STRUCT-DYN	0.03 /	BOEING /	C. A. LUNDER, W.	DMS-DR-2341
BTWT -	CS4 AND CS5 TO IN		C LOADS, PRESSURE		0.15 -	TBCA -	D. BURGGRAF, W. R	OCT., 1976
1490/1493/	VESTIGATE DYNAMIC		, EMPENNAGE FLOW		0.70	TRANSONIC WIND	. COVINGTON/TBC	
CS4/5	LOADS AND PRESSU		FIELD DATA			TUNNEL	D. A. SARVER	
CR-147,638	RES ON 0.03-SCALE						M. M. MOSER JR.	
	MODELS (AX1319-3						-DMS	
	/4 AND 45-0) OF M							
	ATED 747 CAM AND							
	SPACE SHUTTLE ORB							
	ITER IN THE BOEIN							
	G TRANSONIC WIND							
	TUNNEL							
AEDC -	RESULTS OF PHASE	MODEL 82-0, 50% F	TO INVESTIGATE SU	HEAT-TRANS	0.040 /	ROCKWELL/	W. H. DYE/RI	DMS-DR-2342
HWTB -	CHANGE PAINT HEAT	OREBODY	RFACE ROUGHNESS E		8 -	AEDC -	L. L. TRIMMER/ARO	JUNE, 1977
82A /	TRANSFER TEST UT		FFECTS ON BOUNDAR			HYPERSONIC WIN	M. M. MOSER JR.	
OH54B	ILIZING 0.040 SCA		Y LAYER TRANSITIO			D TUNNEL (B)	-DMS	
CR-151,074	LE 50 PERCENT FOR		N					
	EBODY MODELS (NO.							
	82-0) OF THE ROC							
	KWELL INTERNATION							
	AL SPACE SHUTTLE							
	ORBITER IN THE AE							
	DC VKF HYPERSONIC							
	TUNNEL B							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	PITOT PRESSURE SU	ATP ORBITER	TO MEASURE TOTAL	PRESSURE	0.0045 /	LARC /	GEORGE C. ASHBY,J	DMS-DR-2343
22HT -	RVEYS ON THE LEEW		PRESSURES IN THE		20.0 -	LARC -	R. - LARC	DEC., 1981
445 /	ARD SURFACE OF A		LEE SIDE FLOW FIE		20.0	22-INCH HELIUM	J. E. VAUGHN	
LA85	0.0045-SCALE MODE		LD OF THE ORBITER			TUNNEL	B. J. BURST	
CR-160,849	L ATP SHUTTLE ORB		AT MACH 20 AND 3				-DMS	
	ITER AT 30 DEGREE		O DEGREES ANGLE O					
	S ANGLE OF ATTACK		F ATTACK					
	AND MACH 20 IN T							
	HE LARC 22 INCH H							
	ELIUM TUNNEL(LA85							
	)							
ARC -	TRANSONIC STABILI	ORBITER-140A/B/C=	TO OBTAIN TRANSON	FORCE	0.015 /	LARC /	J. GAMBLE, J. UND	DMS-DR-2344
11TWT -	TY AND CONTROL CH	B26 C9 E43 F8 M16	IC AERODYNAMIC DA		0.6 -	ARC -	ERWOOD/JSC	VOLUME 01
200-1 /	ARACTERISTICS OF	N28 R5 V8 W	TA ON CONTROL SUR		1.2	11-FOOT TRANSO	HARRY PARRELL/RI	JAN., 1980
LA77	A 0.015-SCALE (RE		FACE LINEARITY AN			NIC WIND TUNNE	J. W. BALL	
CR-151,788	MOTELY CONTROLLED		D SENSITIVITY TO			L (UNITARY)	C. R. EDWARDS	
	ELEVON) MODEL 44		MACH NUMBER FOR F				-DMS	
	-O OF THE SPACE S		INE-CUT SPEEDBRAK					
	HUTTLE ORBITER TE		E, BODY FLAP, AND					
	STED IN THE NASA/		RUDDER DEFLECTION					
	ARC 11-FOOT TRANS		S AND TO INVESTIG					
	ONIC WIND TUNNEL		ATE THE INTERACTI					
	(LA77)		VE EFFECTS OF MUT					
			UAL CONTROL SURFA					
			CE DEVLECTIONS					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 200-1 / LA77 CR-151,789	TRANSONIC STABILI TY AND CONTROL CH ARACTERISTICS OF A 0.015-SCALE (RE MOTELY CONTROLLED ELEVON) MODEL 44 -O OF THE SPACE S HUTTLE ORBITER TE STED IN THE NASA/ ARC 11-FOOT TRANS ONIC WIND TUNNEL (LA77)	ORBITER-140A/B/C= B26 C9 E43 F8 M16 N28 R5 V8 W	TO OBTAIN TRANSON IC AERODYNAMIC DA TA ON CONTROL SUR FACE LINEARITY AN D SENSITIVITY TO MACH NUMBER FOR F INE-CUT SPEEDBRAK E, BODY FLAP, AND RUDDER DEFLECTION S AND TO INVESTIG ATE THE INTERACTI VE EFFECTS OF MUT VAL CONTROL SURFA CE DEFLECTIONS	FORCE	0.015 / 0.6 - 1.2	LARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	J. GAMBLE, J. UND ERWOOD/JSC HARRY PARRELL/RI J. W. BALL C. R. EDWARDS -DMS	DMS-DR-2344 VOLUME 02 JAN., 1980
MSFC - 14TWT - 645 / SA21F TM-X 78195	AERODYNAMIC ROLL CHARACTERISTICS O F A 0.00548 SCALE 146-INCH SOLID R OCKET BOOSTER REE NTRY CONFIGURATIO N (MSFC MODEL NUM BER 486) OVER A P ORTION OF THE REE NTRY FLIGHT REGIM E IN THE NASA/MSF C 14-INCH TRISONI C WIND TUNNEL	146-INCH SRB/TRUN CATED NOSE (MODEL 486)	TO STUDY ROLL CHA RACTERISTICS (TO OBTAIN IMPROVED A ND MORE ACCURATE ROLLING MOMENT DA TA ON SRB BY USIN G A SENSITIVE SIN GLE COMPONENT ROL L BALANCE--NO. 24 7	FORCE	1.46 - 3.48	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	P. E. RAMSEY/MSFC V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2345 OCT., 1978
AEDC - SWTA - K1A / IA142 CR-151,385	RESULTS OF SRB SE PARATION TESTS US ING THE 0.010-SCA LE SSV MODEL 75-O TS IN THE AEDC VK F TUNNEL A	75-OTS	TO OBTAIN PROXIMI TY FORCE AND MOME NT DATA FOR ORB/E T AND SRB WITH BO OSTER SEPARATION MOTOR PLUME EFFEC TS	FORCE	0.010 / 4.5- 4.5	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, J. MARROQUIN/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2346 VOLUME 01 JAN., 1978

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AEDC - SWTA - K1A / IA142 CR-151,386	RESULTS OF SRB SEPARATION TESTS USING THE 0.010-SCALE SSV MODEL 75-OTS IN THE AEDC VKF TUNNEL A	75-OTS	TO OBTAIN PROXIMITY FORCE AND MOMENT DATA FOR ORB/ET AND SRB WITH BOOSTER SEPARATION MOTOR PLUME EFFECTS	FORCE	0.010 / 4.5- 4.5	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J. J. DAILE[illegible], J. MARROQUIN/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2346 VOLUME 02 JAN., 1978
AEDC - SWTA - K1A / IA142 CR-151,387	RESULTS OF SRB SEPARATION TESTS USING THE 0.010-SCALE SSV MODEL 75-OTS IN THE AEDC VKF TUNNEL A	75-OTS	TO OBTAIN PROXIMITY FORCE AND MOMENT DATA FOR ORB/ET AND SRB WITH BOOSTER SEPARATION MOTOR PLUME EFFECTS	FORCE	0.010 / 4.5- 4.5	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J. J. DAILEDA, J. MARROQUIN/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2346 VOLUME 03 JAN., 1978
UW - LSWT - 1173 / CA15A CR-160,482	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR 0.04-SCALE MODEL BOEING 747 CAM/ORBITER (MODEL AX1284 E-6) COMBINATION IN THE UNIVERSITY OF WASHINGTON AERONAUTICAL LABORATORY F. K. KIRSTEN WIND TUNNEL (CA15A)	.04 SCALE 747-100 747 CAM/ORBITER-FERRY CONF 747 CAM/ORBITER-ALT CONF	TO PROVIDE A DATA BASE TO DEFINE AERODYNAMIC CHARACTERISTICS IN PITCH AND YAW FOR ADDITIONAL ORBITER INCIDENCE ANGLES, FLAP SETTINGS AND TO DEFINE GROUND PROXIMITY EFFECTS.	FORCE	0.04 / 0.15 - 0.15	BOEING / UW - LOW SPEED WIND TUNNEL	R.D. KNUDSEN,J. M. BELZ,G. E. VEDEROFF/TBC R. H. LINDAHL -DMS	DMS-DR-2347 VOLUME 01 JUNE, 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
UW - LSWT - 1178 / CA15B CR-160,483	MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION FOR 0.04-SCALE MODEL BOEING 747 CAM/OR BITER (MODEL AX12 84 E-7) COMBINATI ON IN THE UNIVERS ITY OF WASHINGTON AERONAUTICAL LAB ORATORY F.K. KIRS TEN WIND TUNNEL.(CA15B)	747-100 ALONE 747-100 WITH CAM TYPE II KITS ATTA CHED 747-100 WITH 43-0 ATTACHED TO THE 747 CAM	TO SUPPLEMENT IN GROUND EFFECT ON THE MATED ALT CON FIGURATIONS, AND OBTAIN DATA IN FR EE AIR ON THE 747 WITH CAM TYPE II MODIFICATIONS AN D ON THE MATED CO NFIGURATION FOR 4 .5 DEG. INCIDENCE .	FORCE	0.04, .0405/ 0.15- 0.15	BOEING / UW - LOW SPEED WIND TUNNEL	R.D.KNUDSEN/ THE BOEING CO. D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2348 VOLUME 01 JUNE, 1980
UW - LSWT - 1184 / CA17 CR-151,379	RESULTS OF TEST C A17 CONDUCTED IN THE UWAL LOW SPEE D WIND TUNNEL USING THE MATED O .04-SCALE 747 MOD EL AX1284 AND 0.0 405 SPACE SHUTTLE ORBITER MODEL 43- 0	CARRIER B29BW45N 5857M2526T14012AT 115.1106.1V9.1.3F TS1 ORBITER B26.1C9E 44F8M16R5V8W116	THIS TEST WAS PAR T II OF THE CARRI ER AIRCRAFT MODIF ICATION PROGRAM (CAM), EFFECTS OF FLAP, STABILIZER , RUDDER, SPOILER , AILERON, ELEVON ,AND INCIDENCE AN GLES, TAILCONE AN D GROUND PROXIMIT Y ON BOTH LONGI- TUDINAL AND LATER AL-DIRECTIONAL CH ARACTERISTICS AT MACH 0.15.	FORCE	0.04 , 0.0405 / 0.15- 0.15	BOEING / UW - LOW SPEED WIND TUNNEL	W.N. WRIGHT/TBC D. A. SARVER G. W. KLUG -DMS	DMS-DR-2349 NOV , 1977
LARC - 8VDHT - 4502-4601/ OH46 CR-151,065	RESULTS OF PHASE CHANGE PAINT THER MAL MAPPING TEST OH46 USING THE 0. 006-SCALE MODEL 9 0-0 IN THE NASA L ARC VARIABLE DENS ITY TUNNEL	140B ORB., MODEL 90-0	TO OBTAIN THERMAL CONTOURS	HEAT-TRANS	0.006 / 8.0 - 8.0	ROCKWELL/ LARC - MACH 8 VARIABL E-DENSITY HYPE RSONIC TUNNEL	J. W. CUMMINGS, W . H. DYE/RI D. A. SARVER M. M. MOSER JR -DMS	DMS-DR-2350 APRIL, 1977

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NRLAD - LSWT - 764 / OA238 CR-160,853	RESULTS OF TEST O A238 USING THE SS V VEHICLE 102 0.1 0-SCALE FOREBODY MODEL NO. 99-0 IN THE NAAL LOW SPE ED WIND TUNNEL TO INVESTIGATE AIR DATA SYSTEM CHARA CTERISTICS	ORBITER 102 FOREB ODY	TO OBTAIN LOW SPE ED AIR DATA SYSTE M SIDE PROBE AND FLIGHT TEST PROBE PRESSURE DATA ON THE OML FOREBODY MODEL 99-0. ALSO TO INVESTIGATE MO DEL BLOCKAGE AND THE EFFECTS OF PR OBE POSITION, PRO BE SCALE AND PROB E ROLL ANGLES ON ALL RECORDED PRES SURE LEVELS	FORCE	0.18 - 0.25	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R.B.RUSSELL/ R.I. R.R.BURROWS/ R.I. W. B. MEINDERS -DMS	DMS-DR-2351 JAN., 1982
LARC - 8TPT - 758 / LA91 CR-151,383,	A STUDY OF TRANSO NIC BETA HYSTERES IS OF AN 0.015 SC ALE MODEL 44-0 (SPACE SHUTTLE OR BITER TESTED IN T HE NASA/LARC 8-FO OT TRANSONIC) PRESSURE TUNNEL (LA91)	ORBITER 140A/B/C B26C9E43F8M16N28 R5V8W	THIS REPORT PRESE NTS THE RESULTS O F AN INVESTIGATIO N IN THE NASA/ LARC 8-FOOT TRANS ONIC PRESSURE TUN NEL OF THE BETA H YSTERESIS EFFECT OF AN 0.015 SCALE SSV ORBITER	FORCE	0.015/ .7- 1.2	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	BERNARD SPENCER J R./ LARC GEORGE M. WARE/ L ARC J. W. BALL G. W. KLUG -DMS	DMS-DR-2352 JAN., 1978
ARC - 11TWT - 213-1 / LA89 CR-160,827	SUBSONIC STABILIT Y AND CONTROL CHA RACTERISTICS OF A 0.030-SCALE SPAC E SHUTTLE ORBITER WITH TAILCONE (M ODEL 201) TESTED IN THE NASA/ARC 1 1-FOOT TRANSONIC WIND TUNNEL (LA89)	ALT	TO EVALUATE THE S TABILITY AND CONT ROL CHARACTERISTI CS OF THE SHUTTLE ORBITER IN THIS ALT CONFIGURATION	FORCE	0.030 / 0.4 - 0.7	LARC / ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	G. M. WARE, B. SP ENCER, JR./LARC J. UNDERWOOD, P. ROMERE, JSC S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2353 JUNE, 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - SWTA - P8A / IA143 CR-151,401 TM-X 1	RESULTS OF SRB SE PARATION TESTS US ING THE 0.010 SCA LE SSV MODEL 75-0 TS IN THE AEDC VK F TUNNEL A (IA143)	MODEL 75-OTS (WIN G)	TO COMPLETE DATA VOIDS IN THE SRB SEPARATION AERO D ATA BASE FOR BOTH PLUME-ON AND PLU ME-OFF CONDITIONS .	FORCE	4.0 - 5.0	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, R . H. SPANGLER /RI J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2354 VOLUME 01 FEB., 1978
AEDC - SWTA - P8A / IA143 CR-151,402 TM-X 2	RESULTS OF SRB SE PARATION TESTS US ING THE 0.010 SCA LE SSV MODEL 75-0 TS IN THE AEDC VK F TUNNEL A (IA143)	MODEL 75-OTS (WIN G)	TO COMPLETE DATA VOIDS IN THE SRB SEPARATION AERO D ATA BASE FOR BOTH PLUME-ON AND PLU ME-OFF CONDITIONS .	FORCE	4.0 - 5.0	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, R . H. SPANGLER /RI J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2354 VOLUME 02 FEB., 1978
AEDC - SWTA - P8A / IA143 CR-151,403 TM-X 3	RESULTS OF SRB SE PARATION TESTS US ING THE 0.010 SCA LE SSV MODEL 75-0 TS IN THE AEDC VK F TUNNEL A (IA143)	MODEL 75-OTS (WIN G)	TO COMPLETE DATA VOIDS IN THE SRB SEPARATION AERO D ATA BASE FOR BOTH PLUME-ON AND PLU ME-OFF CONDITIONS .	FORCE	4.0 - 5.0	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, R . H. SPANGLER /RI J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2354 VOLUME 03 FEB., 1978
AEDC - SWTA - P8A / IA143 CR-151,404 TM-X 4	RESULTS OF SRB SE PARATION TESTS US ING THE 0.010 SCA LE SSV MODEL 75-0 TS IN THE AEDC VK F TUNNEL A (IA143)	MODEL 75-OTS (WIN G)	TO COMPLETE DATA VOIDS IN THE SRB SEPARATION AERO D ATA BASE FOR BOTH PLUME-ON AND PLU ME-OFF CONDITIONS .	FORCE	4.0 - 5.0	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J. J. DAILEDA, R . H. SPANGLER /RI J. E. VAUGHN G. G. MCDONALD -DMS	DMS-DR-2354 VOLUME 04 FEB., 1978

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - SWTA - VA525/218/ OH49A CR-151,066	RESULTS OF TEST OH49A OF THE .0175-SCALE SPACE SHUTTLE ORBITER MODEL 22-O CONDUCTED IN THE AEDC VKF TUNNEL B TO DETERMINE AERO HEATING CHARACTERISTICS	B17 C7 E22 F7 M4 W104	TO INVESTIGATE AERODYNAMIC HEATING EFFECTS DURING ENTRY	HEAT-TRANS	7.9 - 8.0	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	W. J. GRIFALL/RI W. R. MARTINDALE, C. E. KAUL/ARO	DMS-DR-2355 JUNE, 1977
AEDC - HWTB - B7A / OH60 CR-151,064	AERODYNAMIC HEATING RESULTS OBTAINED DURING TEST OH60 CONDUCTED IN THE AEDC VKF TUNNEL B USING THE 0.040-SCALE MODEL 83-0 OF THE SPACE SHUTTLE ORBITER FORWARD FIFTY PERCENT FUSELAGE	MODEL 83-O (B60 C10)	TO INVESTIGATE EFFECTS OF PROTUBERANCES ON AERODYNAMIC HEATING ON THE SS ORBITER FUSELAGE NOSE, CANOPY, AND SIDE WALLS	HEAT-TRANS	0.040 / 7.90 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	B. J. HERRERA/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2356 MAY, 1977
ARC - 3.5HWT - 222 / IH68 CR-167,655	RESULTS OF ASCENT AERODYNAMIC HEATING TESTS ON THE SPACE SHUTTLE ASCENT VEHICLE, AT MACH 5.3 AND 7.4 IN THE NASA/AMES 3.5-FOOT HWT, USING THE 0.0175-SCALE MODEL 60 OTS (IH68)	INTEGRATED VEHICLE ORBITER PLUS TANK ORBITER, TANK, AND SRB ALONE	TO OBTAIN AERODYNAMIC HEAT TRANSFER DATA ON THE SSV VEHICLE 5 CONFIGURATION	HEAT-TRANS	0.0175 / 5.3 - 7.4	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	W. H. DYE/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2357 JUNE, 1983

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AEDC - HWTB - 58A / OH50B CR-151,067	AERODYNAMIC HEATING RESULTS OBTAINED DURING TEST OH50B CONDUCTED IN THE AEDC VKF TUNNEL B USING THE 0.040-SCALE 83-0 OF THE SPACE SHUTTLE ORBITER FORWARD FIFTY PERCENT FUSELAGE	FORWARD 50 PERCENT FUSELAGE, MODEL 83-0	TO INVESTIGATE EFFECTS OF PROTUBERANCES ON AERO. HEATING ON NOSE, CANOPY, SIDE WALLS	HEAT-TRANS	0.040 / 7.90 - 8.00	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	W. H. DYE/RI D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2358 JUNE, 1977
CALSPAN - 96HST - 131 / OH66 CR-151,405	RESULTS OF HEAT TRANSFER TESTING OF AN 0.025-SCALE MODEL (66-0) OF THE SPACE SHUTTLE ORBITER CONFIGURATION 140B IN THE CALSPAN HYPER-SONIC SHOCK TUNNEL (OH66)	ROCKWELL VEHICLE 3 (MODIFIED) SHUTTLE ORBITER. MODEL 66-0	OBTAIN SPANWISE HEAT TRANSFER RATE DISTRIBUTIONS ON THE LEADING EDGE OF THE GLOVE AND WING, ESPECIALLY SHOCK INTERFERENCE PEAKS. OBTAIN HEAT TRANSFER DISTRIBUTIONS NORMAL TO A LEADING EDGE AT SIX SPANWISE LOCATIONS.	HEAT-TRANS	0.025 / 9.88 - 10.0	ROCKWELL/ CALSPAN - 96-INCH HYPERSONIC SHOCK TUNNEL	C.L.BERTHOL/ROCKWELL H.GOROWITZ/ROCKWELL J. E. VAUGHN -DMS	DMS-DR-2359 MARCH, 1978

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ARC -	CALIBRATION TESTS	ORBITER VEHICLE 1	MEASURE AIR DATA	FORCE	0.10 /	ROCKWELL/	A.R.GROSS/ARC	DMS-DR-2360
97SWT -	OF THE SPACE SHU	02 FOREBODY	SYSTEM PROBE PITO		1.6 -	ARC -	T.J.DZIUBALA/R.I.	VOLUME 01
119-1 /	TTLE ORBITER PRIM		T AND STATIC PRES		3.5	9-FOOT BY 7-FO	W. B. MEINDERS	DEC., 1980
87SWT -	ARY AND ALTERNATE		SURE ERRORS;DETER			OT SUPERSONIC	-DMS	
119 /	AIR DATA SYSTEMS		MINE PROBE SCALE			WIND TUNNEL (U		
OA221B/C	USING A 0.10-SCA		EFFECT ON THE STA			NITARY)		
CR-160,521	LE ORBITER FOREBO		TIC PRESSURE CALI			8-FOOT BY 7-FO		
	DY MODEL (99-0) I		BRATION;CALIBRATE			OT SUPERSONIC		
	N THE NASA AMES R		THE ANGLE-OF-ATTA			WIND TUNNEL (U		
	ESEARCH CENTER 9		CK SENSOR; EVALUA			NITARY)		
	X 7 AND 8 X 7-FOO		TION OF BOTH FLUS					
	T LEGS OF THE UNI		H PORT AND INSTRU					
	TARY PLAN WIND TU		MENTED REACTION C					
	NNEL (OA221B AND		ONTROL SYSTEM THR					
	C)		USTER AIR DATA SY					
			STEMS					
ARC -	CALIBRATION TESTS	ORBITER VEHICLE 1	MEASURE AIR DATA	FORCE	0.10 /	ROCKWELL/	A.R.GROSS/ARC	DMS-DR-2360
97SWT -	OF THE SPACE SHU	02 FOREBODY	SYSTEM PROBE PITO		1.6 -	ARC -	T.J.DZIUBALA/R.I.	VOLUME 02
119-1 /	TTLE ORBITER PRIM		T AND STATIC PRES		3.5	9-FOOT BY 7-FO	W. B. MEINDERS	DEC., 1980
87SWT -	ARY AND ALTERNATE		SURE ERRORS;DETER			OT SUPERSONIC	-DMS	
119 /	AIR DATA SYSTEMS		MINE PROBE SCALE			WIND TUNNEL (U		
OA221B/C	USING A 0.10-SCA		EFFECT ON THE STA			NITARY)		
CR-160,522	LE ORBITER FOREBO		TIC PRESSURE CALI			8-FOOT BY 7-FO		
	DY MODEL (99-0) I		BRATION;CALIBRATE			OT SUPERSONIC		
	N THE NASA AMES R		THE ANGLE-OF-ATTA			WIND TUNNEL (U		
	ESEARCH CENTER 9		CK SENSOR: EVALUA			NITARY)		
	X 7 AND 8 X 7-FOO		TION OF BOTH FLUS					
	T LEGS OF THE UNI		H PORT AND INSTRU					
	TARY PLAN WIND TU		MENTED REACTION C					
	NNEL (OA221B AND		ONTROL SYSTEM THR					
	C)		USTER AIR DATA SY					
			STEMS					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 768 / OA163B CR-151,370	RESULTS OF A LANDING GEAR LOADS TEST USING A 0.0405-SCALE MODEL (16-O) OF THE SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL WIND TUNNEL (OA163B)	B68C12E55F10M16N28R5V8W127X9	THE PRIMARY TEST OBJECTIVE WAS TO VERIFY ORBITER LANDING GEAR SYSTEM PRESSURE LOADING AND HINGE MOMENT LEVELS OBTAINED DURING THE TEST PERIOD OA163.	FORCE PRESSURE	0.0405 / 0.17 -	ROCKWELL/NRLAD - LOW SPEED WIND TUNNEL	R.C.MENNELL/ROCKWELL INTERNATIONAL D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2361 VOLUME 01 OCT., 1977
NRLAD - LSWT - 768 / OA163B CR-151,371	RESULTS OF A LANDING GEAR LOADS TEST USING A 0.0405-SCALE MODEL (16-O) OF THE SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL WIND TUNNEL (OA163B)	B68C12E55F10M16N28R5V8W127X9	THE PRIMARY TEST OBJECTIVE WAS TO VERIFY ORBITER LANDING GEAR SYSTEM PRESSURE LOADING AND HINGE MOMENT LEVELS OBTAINED DURING THE TEST PERIOD OA163.	FORCE PRESSURE	0.0405 / 0.17 -	ROCKWELL/NRLAD - LOW SPEED WIND TUNNEL	R.C.MENNELL/ROCKWELL INTERNATIONAL D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2361 VOLUME 02 OCT., 1977
LARC - TDT - 246 / OS7 CR-151,057	RESULTS OF FLUTTER TEST OS7 OBTAINED USING THE 0.14-SCALE SPACE SHUTTLE ORBITER FIN/RUDDER MODEL NUMBER 55-O IN THE NASA LARC 16-FOOT TRANSONIC DYNAMICS WIND TUNNEL	55-O (FIN, RUDDER)	TO INVESTIGATE FLUTTER BOUNDARIES	STRUCT-DYN	0.14 / 095 - 1911	ROCKWELL/LARC - TRANSONIC DYNAMICS TUNNEL	C. L. BERTHOLD/RI F. RAUCH, G. COMMERFORD, T. FOLEY/GRUMMAN D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2363 APRIL, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	1.5 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2364
97SWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	2.5	ARC -	OCKWELL INTERNATI	VOLUME 01
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			9-FOOT BY 7-FO	ONAL SPACE DIVISI	FEB., 1981
OA145B	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			OT SUPERSONIC	ON	
CR-160,527	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			WIND TUNNEL (U	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU			NITARY)	-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145B)		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	1.5 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2364
97SWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	2.5	ARC -	OCKWELL INTERNATI	VOLUME 02
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			9-FOOT BY 7-FO	ONAL SPACE DIVISI	MARCH, 1981
OA145B	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			OT SUPERSONIC	ON	
CR-160,528	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			WIND TUNNEL (U	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU			NITARY)	-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145B)		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 118-1 / 0A145B CR-160,529	RESULTS OF AN INV ESTIGATION TO VER IFY SHUTTLE ORBIT ER VEHICLE 102 AERO CHARACTERIST ICS UTILIZING AN .05-SCALE HI-FIDE LITY REMOTE CONTROL MODEL (39 -0) IN THE AMES R ESEARCH CENTER UN ITARY WIND TUNNEL (0A145B)	B75C16E64F16FD3FR 22HG1M52N108N109N 110N111R20V27VT10 VT11VT12VT13VT14 VT15VT16VT17W131	VERIFY ORBITER VE HICLE 102 AERODYN AMIC CHAR WITH RE GARD TO: (1)BASIC STABILITY AND CON TROL(2)CONTROL SU RFACE HINGE MOMEN TS(3)REYNOLDS NUMBER EFFECTS(4) HYSTERESIS AND CO NTROL SURFACE INT ERACTIONS(5) PROPOSED INBOARD/ OUTBOARD ELEVON I NTERACTION MATH M ODEL	FORCE PRESSURE	1.5 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	R. H. MULFINGER/R OCKWELL INTERNATI ONAL SPACE DIVISI ON M. M. MANN -DMS	DMS-DR-2364 VOLUME 03 FEB., 1981
LARC - TDT - 246 / 0S6 CR-151,056	RESULTS OF FLUTTE R TEST 0S6 OBTAIN ED USING THE 0.14 -SCALE WING/ELEVO N MODEL (54-0) IN THE NASA LARC 16 -FOOT TRANSONIC D YNAMICS WIND TUNN EL	MODEL 54-0	TO DETERMINE FLUT TER, BUFFET, AND ELEVON BUZZ BOUND ARIES	STRUCT-DYN	0.14 / 0.3 - 1.1	LARC / LARC - TRANSONIC DYNA MICS TUNNEL	G. SPENCER, JR./L ARC M. M. MOSER JR. -DMS	DMS-DR-2365 APRIL, 1977
AEDC - HWTB - 41B-83A / 0H25B CR-151,063	HEAT TRANSFER PHA SE CHANGE PAINT T ESTS OF 0.0175-SC ALE MODEL (NO. 56 -0) OF THE ROCKWE LL INTERNATIONAL SPACE SHUTTLE OR BITER IN THE AEDC TUNNEL B HYPERSO NIC WIND TUNNEL	140C (B17C7E22F5M 4R5V7W103	TO INVESTIGATE EN TRY AERODYNAMIC H EATING EFFECTS	HEAT-TRANS	0.0175 / 7.88 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	W. H. DYE/RI L. L. TRIMMER/ARO D. A. SARVER M. M. MOSER JR. -DMS	DMS-DR-2366 MAY, 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - V41B-K3A / OH57A/B CR-151,773	RESULTS OF A HIGH ANGLE-OF-ATTACK AERO HEATING PRESSURE TEST ON A O.0175-SCALE MODEL (92-O) OF THE OV-102 CONFIGURATION SPACE SHUTTLE ORBITER IN THE AEDC VKF TUNNEL B (OH57A/B)	MODEL 9I-O ORBITER 102, DRWG VC-70-000002B	OBTAIN STATIC PRESSURES ON UPPER AND LOWER WING SURFACES AND VERT. TAIL FOR FLOW FIELD DEFINITION	HEAT-TRANS	0.0175 / 7.94 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	PAUL LAMOINE/RI J. L. GLYNN J. E. VAUGHN -DMS	DMS-DR-2367 MAY, 1979
LARC - CFHT - 112 / OH51 CR-151,058	RESULTS OF PHASE CHANGE HEAT TRANSFER TEST OH51 USING 0.006-SCALE SPACE SHUTTLE ORBITER MODELS 46-O AND 90-O AND PARTIAL WING 0.0175-SCALE MODEL 64-O IN THE LARC 31-INCH CFHT	MODELS 46-O, 64-O 90-O	TO INVESTIGATE PHASE CHANGE PAINT HEATING EFFECTS ON ORBITER AND PARTIAL WING; WING TESTED WITH SHOCK GENERATOR AT VARIOUS POSITIONS	HEAT-TRANS	0.006 , 0.0175 / 10 -	ROCKWELL/ LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	J. W. CUMMINGS/RI D.W.HERSEY M. M. MOSER JR. -DMS	DMS-DR-2368 APRIL, 1977
MSFC - HRWT - 039 / SA31F CR-167,345	AN AERODYNAMIC STATIC STABILITY WIND TUNNEL TEST OF A 0.00856 SCALE MODEL OF THE SPACE SHUTTLE 146 INCH DIAMETER SOLID ROCKET BOOSTER REENTRY CONFIGURATION (MSFC MODEL 487) IN THE NASA/MSFC HIGH REYNOLDS NUMBER WIND TUNNEL	SRB REENTRY CONFIG.	TO OBTAIN AERO. FORCE DATA OF SRB AT REENTRY MACH NUMBERS AND ATTITUDES	FORCE	0.4 - 0.9	MSFC / MSFC - HIGH REYNOLDS NUMBER WIND TUNNEL	G. W. WINKLER/I V. W. SPARKS M. M. MOSER JR. -DMS	DMS-DR-2369 FEB., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 115-1 / 87SWT - 115-1 / OA149B/C CR-151,790	RESULTS OF TEST USING A 0.030-SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R5V8W116(ORBITER)	DETERMINE FORCE/PRESSURE DATA AT HIGH ALPHA/BETA COMBINATIONS FOR MACH RANGE 1.6 TO 3.5	FORCE PRESSURE	1.6 - 3.5	ROCKWELL/ARC 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCKWELL INTERNATIONAL M. M. MANN -DMS	DMS-DR-2370 VOLUME 01 APRIL, 1980
ARC - 97SWT - 115-1 / 87SWT - 115-1 / OA149B/C CR-151,791	RESULTS OF TEST USING A 0.030-SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R5V8W116(ORBITER)	DETERMINE FORCE/PRESSURE DATA AT HIGH ALPHA/BETA COMBINATIONS FOR MACH RANGE 1.6 TO 3.5	FORCE PRESSURE	1.6 - 3.5	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCKWELL INTERNATIONAL M. M. MANN -DMS	DMS-DR-2370 VOLUME 02 APRIL, 1980
ARC - 97SWT - 115-1 / 87SWT - 115-1 / OA149B/C CR-151,792	RESULTS OF TEST USING A 0.030-SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R5V8W116(ORBITER)	DETERMINE FORCE/PRESSURE DATA AT HIGH ALPHA/BETA COMBINATIONS FOR MACH RANGE 1.6 TO 3.5	FORCE PRESSURE	1.6 - 3.5	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCKWELL INTERNATIONAL M. M. MANN -DMS	DMS-DR-2370 VOLUME 03 MAY, 1980

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
JSC - 56-A-76 / OH78 CR-151,408	RESULTS OF BASE HEATING TESTS ON A 0.04 SCALE SPACE SHUTTLE ORBITER BASE (MODEL 65-O) IN THE NASA/JSC THERMAL VACUUM CHAMBER A	ORBITER VEHICLE 102	TO MEASURE HEAT TRANSFER RATES AND PRESSURE DISTRIBUTIONS ABOUT THE BASE OF THE ORBITER VEHICLE DURING SECOND STAGE ASCENT	HEAT-TRANS	0.04 /	ROCKWELL/ JSC -	W. P. GARTON/RI J. E. VAUGHN -DMS	DMS-DR-2371 MAY, 1978
AEDC - SWTA - V41A-R2A / IH72 CR-160,843	RESULTS OF HEAT TRANSFER TESTS OF A 0.0175-SCALE SPACE SHUTTLE INTEGRATED VEHICLE MODEL 60-OTS IN THE AEDC-VKF TUNNEL A (IH72)	OTS TANK ALONE LEFT SRB ALONE RIGHT SRB ALONE	TO OBTAIN ET AND SRB AERODYNAMIC HEAT TRANSFER DATA ON THE SPACE SHUTTLE INTEGRATED VEHICLE DURING LAUNCH CONDITIONS	HEAT-TRANS	3.01 - 4.02	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	W. H. DYE /RI E. C. ALLEN S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2372 NOV., 1981
LARC - 8TPT - 769 / LA99 CR-160,821	EFFECT OF TAILCONE CUT-OFF AND STING CONFIGURATION ON THE AERODYNAMIC CHARACTERISTICS OF A 0.030 SCALE (REMOTELY CONTROLLED ELEVON, BODYFLAP AND RUDDER) MODEL 201-0 ALT ORBITER TESTED IN THE NASA/LARC 8-FOOT TPT (LA99)	LARC BUILT MODEL 201-0 0.030 SCALE SSV ORBITER WITH REMOTE ELEVONS	VERIFY MONLINEARITIES AND DETERMINE REASON DIFFERENCES NOTED BETWEEN DATA OF TESTS OA175 AND LA89. RUDDER AND BODYFLAP CONTROL EFFECTIVENESS FOR ALT CONDITIONS WERE DETERMINED AS WELL AS CONTROL DEFLECTION EFFECTS ON STABILITY	FORCE	0.4 - 0.6	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	BERNARD SPENCER, JR./ NASA LARC GEORGE M. WARE/NASA/LARC G. G. MCDONALD -DMS	DMS-DR-2373 MARCH, 1981

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
CALSPAN - 8TWT - T18-111 / T18-113 / LA82 LA103 CR-167,372	INVESTIGATIONS IN THE CALSPAN 8-FOOT TRANSONIC WIND TUNNEL TO DETERMINE STING-TARE EFFECTS ON A MODIFIED 0.0165-SCALE SPACE SHUTTLE ORBITER MODEL WITH A TAILCONE (LA82/LA103)	B20F4M16W87E19V5R5TC4	TO DETERMINE STING-TARE EFFECTS FOR THE ORBITER WITH TAILCONE	FORCE	0.0165 / 0.3- 0.7	LARC / CALSPAN - 8-FOOT TRANSONIC WIND TUNNEL	B. SPENCER/LARC G.M. WARE/LARC J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2374 OCT., 1982
ARC - 40SWT - 500 / OA237 CR-160,530	RESULTS OF AIR DATA SYSTEM CALIBRATION TEST USING THE 0.10-SCALE SPACE SHUTTLE ORBITER VEHICLE 102 FOREBODY MODEL 99-O IN THE NASA 40 X 80-FOOT SUBSONIC WIND TUNNEL (OA237)	ORBITER VEHICLE 102 FOREBODY	OBTAIN ORBITER AIR DATA SYSTEM LOW-SPEED CALIBRATION: DEMONSTRATE THAT FOREBODY MODEL WILL PROVIDE FULL ORBITE FLOW FIELD SIMULATION AT THE AIR DATA PROBES; DEMONSTRATE THAT PREDICTED BLOCKAGE INFLUENCE ON PROBE FOR THE NA AL TUNNEL IS VALID	FORCE	00.11- 0.27	ROCKWELL/ ARC - 40-FOOT BY 80-FOOT SUBSONIC WIND TUNNEL	R.R.BURROW/RI R.L.MAKI/ARC W. B. MEINDERS -DMS	DMS-DR-2375 DEC., 1980
ARC - 11TWT - 115 / OA149A CR-151,779	RESULTS OF TEST USING A 0.030-SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R5V8W116(ORBITER)	DETERMINE FORCE/PRESSURE DATA AT HIGH ALPHA/BETA COMBINATIONS FOR MACH RANGE 0.6 TO 1.4	FORCE PRESSURE	0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCKWELL INTERNATIONAL T. L. MULKEY M. M. MANN -DMS	DMS-DR-2376 VOLUME 01 JAN., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 115 / OA149A CR-151,780	RESULTS OF TEST U SING A 0.030-SCAL E PRESSURE LOADS SPACE SHUTTLE ORB ITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R 5V8W116(ORBITER)	DETERMINE FORCE/P RESSURE DATA AT H IGH ALPHA/BETA CO MBINATIONS FOR MACH RANGE 0.6 TO 1.4	FORCE PRESSURE	0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCK WELL INTERNATIONA L T. L. MULKEY M. M. MANN -DMS	DMS-DR-2376 VOLUME 02 JAN., 1980
ARC - 11TWT - 115 / OA149A CR-151,781	RESULTS OF TEST U SING A 0.030-SCAL E PRESSURE LOADS SPACE SHUTTLE ORB ITER MODEL (47-O) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL	B70C9E44F9M16N28R 5V8W116(ORBITER)	DETERMINE FORCE/P RESSURE DATA AT H IGH ALPHA/BETA CO MBINATIONS FOR MACH RANGE 0.6 TO 1.4	FORCE PRESSURE	0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	E. CHEE/ROCKWELL INTERNATIONAL J. MARROQUIN/ROCK WELL INTERNATIONA L T. L. MULKEY M. M. MANN -DMS	DMS-DR-2376 VOLUME 03 JAN., 1980
ARC - 11TWT - 228-1 / IA144 CR-167,342	RESULTS OF TESTS OF THE 0.010 SCAL E SPACE SHUTTLE I NTEGRATED VEHICLE IN THE NASA/AMES RESEARCH CENTER 11X11 FOOT TRANSO NIC WIND TUNNEL, MODEL 72-OTS TEST IA144	O - 140A/B/C/R SRB - MODIFIED VE HICLE 5 T - MODIFIED VEHI CLE 5	THE TEST OBJECTIV ES WERE TO OBTAIN INDIVIDUAL COMPO NENT LOADS, ELEVO N HINGE MOMENT DA TA,AND THE EFFECT S OF SEALING THE METRIC WING GAP O N COMPONENT LOADS	FORCE	0.01 / .60 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	P.J. HAWTHORNE, R . SPANGLER /RI J.J. BROWNSON /AR C D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2377 VOLUME 01 APRIL, 1982
ARC - 11TWT - 228-1 / IA144 CR-167,343	RESULTS OF TESTS OF THE 0.010 SCAL E SPACE SHUTTLE I NTEGRATED VEHICLE IN THE NASA/AMES RESEARCH CENTER 11X11 FOOT TRANSO NIC WIND TUNNEL, MODEL 72-OTS TEST IA144	O - 140A/B/C/R SRB - MODIFIED VE HICLE 5 T - MODIFIED VEHI CLE 5	THE TEST OBJECTIV ES WERE TO OBTAIN INDIVIDUAL COMPO NENT LOADS, ELEVO N HINGE MOMENT DA TA,AND THE EFFECT S OF SEALING THE METRIC WING GAP O N COMPONENT LOADS	FORCE	0.01 / .60 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	P.J. HAWTHORNE, R . SPANGLER /RI J.J. BROWNSON /AR C D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2377 VOLUME 02 APRIL, 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AN INV	MODEL 112-T	DETERMINE PRESSUR	FORCE	0.25,	ROCKWELL/	R.H.SPANGLER, J.M	DMS-DR-2378
11TWT -	ESTIGATION OF STA		ES ON AN ARRAY OF	PRESSURE	0.75/	ARC -	ARROQUIN, M.E.NIC	MARCH, 1981
412-1 /	TIC AND DYNAMIC P		ROUND AND RECTAN		0.4-	11-FOOT TRANSO	HOLS/R.I.	
IA191	RESSURE DISTRIBUT		GULAR PIPES IN TH		1.0	NIC WIND TUNNE	J.C.MONFORT, R.R.	
CR-160,820	IONS ON EXTERNAL		E PRESENCE OF A F			L (UNITARY)	ELLINGTON/ARC	
	TANK PROTUBERANCE		LAT PLATE REPRESE				S. R. HOULIHAN	
	S IN THE 11-FOOT		NTING LO2 FEEDLIN				G. W. KLUG	
	LEG OF THE NASA/A		E, GO2 PRESSURE L				-DMS	
	RC UNITARY PLAN W		INE,LO2 ANTIGEYSE					
	IND TUNNEL (IA191		R LINE AND CABLE					
	)		TRAY AT VARIOUS C					
			ROSS FLOW ANGLES--					
			TO ALSO DETERMIN					
			E DYNAMIC ENVIRON					
			MENT AROUND THE S					
			AME ARRAY.					
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	0.6 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2380
11TWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	1.4	ARC -	OCKWELL INTERNATI	VOLUME 01
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			11-FOOT TRANSO	ONAL SPACE DIVISI	DEC., 1980
OA145A	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			NIC WIND TUNNE	ON	
CR-151,801	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			L (UNITARY)	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU				-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145A		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	0.6 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2380
11TWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	1.4	ARC	OCKWELL INTERNATI	VOLUME 02
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			11-FOOT TRANSO	ONAL SPACE DIVISI	DEC., 1980
OA145A	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO (1)BASIC			NIC WIND TUNNE	ON	
CR-151,802	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			L (UNITARY)	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU				-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145A		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	0.6 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2380
11TWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	1.4	ARC -	OCKWELL INTERNATI	VOLUME 03
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			11-FOOT TRANSO	ONAL SPACE DIVISI	DEC., 1980
OA145A	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			NIC WIND TUNNE	ON	
CR-151,803	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			L (UNITARY)	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU				-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145A		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 118-1 / OA145A CR-151,804	RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER VEHICLE 102 AERO CHARACTERISTICS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE AMES RESEARCH CENTER UNITARY WIND TUNNEL (OA145A	B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14VT15VT16VT17W131	VERIFY ORBITER VEHICLE 102 AERODYNAMIC CHAR WITH REGARD TO: (1)BASIC STABILITY AND CONTROL(2)CONTROL SURFACE HINGE MOMENTS(3)REYNOLDS NUMBER EFFECTS(4)HYSTERESIS AND CONTROL SURFACE INTERACTIONS(5)PROPOSED INBOARD/OUTBOARD ELEVON INTERACTION MATH MODEL	FORCE PRESSURE	0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. H. MULFINGER/ROCKWELL INTERNATIONAL SPACE DIVISION M. M. MANN -DMS	DMS-DR-2380 VOLUME 04 DEC., 1980
ARC - 11TWT - 118-1 / OA145A CR-151,805	RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER VEHICLE 102 AERO CHARACTERISTICS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE AMES RESEARCH CENTER UNITARY WIND TUNNEL (OA145A	B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14VT15VT16VT17W131	VERIFY ORBITER VEHICLE 102 AERODYNAMIC CHAR WITH REGARD TO: (1)BASIC STABILITY AND CONTROL(2)CONTROL SURFACE HINGE MOMENTS(3)REYNOLDS NUMBER EFFECTS(4)HYSTERESIS AND CONTROL SURFACE INTERACTIONS(5)PROPOSED INBOARD/OUTBOARD ELEVON INTERACTION MATH MODEL	FORCE PRESSURE	0.6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. H. MULFINGER/ROCKWELL INTERNATIONAL SPACE DIVISION M. M. MANN -DMS	DMS-DR-2380 VOLUME 05 DEC., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	0.6 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2380
11TWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	1.4	ARC -	OCKWELL INTERNATI	VOLUME 06
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			11-FOOT TRANSO	ONAL SPACE DIVISI	DEC., 1980
OA145A	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			NIC WIND TUNNE	ON	
CR-151,806	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			L (UNITARY)	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU				-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145A		PROPOSED INBOARD/					
			OUTBOARD ELEVON I					
			NTERACTION MATH M					
			ODEL					
LARC -		TEST CANCELLED SE	TEST CANCELLED SE	FORCE		LARC /	G. G. MCDONALD	DMS-DR-2381
8TPT -		PTEMBER 1978	PTEMBER 1978			LARC -	-DMS	JUNE, 1983
780 /						8-FOOT TRANSON		
LA107						IC PRESSURE TU		
						NNEL		
MSFC -	RESULTS OF EXPERI	MODEL 25-0 (VEH.	TO DETERMINE 2ND	HEAT-TRANS	0.04 /	MSFC /	W. P. GARTON/RI	DMS-DR-2382
IPBF -	MENTAL TESTS IN T	2A AFT OF STA. XO	STAGE ASCENT BASE			MSFC -	J. E. VAUGHN	NOV., 1977
027 /	HE NASA/MSFC IMPU	=1400 AND PROP. S	HEATING RATES AN			NASA/MSFC IMPU	M. M. MOSER JR.	
OH8	LSE BASE FLOW FAC	IMULATION SYS.)	D PRESSURE DISTRI			LSE BASE FLOW	-DMS	
IA109	ILITY ON A SPACE		BUTIONS RESULTING			FACILITY		
CR-151,382	SHUTTLE .04 SCALE		FROM ENGINE PLUM					
	ORBITER (MODEL 2		E RECIRCULATION A					
	5-0) TO DETERMINE		ND DIRECT PLUME I					
	SECOND STAGE ASC		MPINGEMENT					
	ENT BASE HEATING							
	RATES AND PRESSUR							
	E DISTRIBUTION							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - TOA / IA148 CR-151,412	RESULTS OF RCS JET PLUME INTERACTION TESTS USING A 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL %B% (IA148)	OV102 + ET (MODEL 70-OT)	TO OBTAIN INTERACTION EFFECTS OF RCS THRUSTER JET PLUMES ON SSV AERODYNAMICS DURING STAGING TO SIMULATE A RETURN-TO-LAUNCH SITE (RTLS) ABORT MISSION	FORCE	0.0125 / 5.89	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.J.DAILEDA + J.M.ARROQUIN/RI J. E. VAUGHN -DMS	DMS-DR-2384 VOLUME 01 SEPT., 1978
AEDC - HWTB - TOA / IA148 CR-151,413	RESULTS OF RCS JET PLUME INTERACTION TESTS USING A 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL %B% (IA148)	OV102 + ET (MODEL 70-OT)	TO OBTAIN INTERACTION EFFECTS OF RCS THRUSTER JET PLUMES ON SSV AERODYNAMICS DURING STAGING TO SIMULATE A RETURN-TO-LAUNCH SITE (RTLS) ABORT MISSION	FORCE	0.0125 / 5.89	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNFL (B)	J.J.DAILEDA + J.M.ARROQUIN/RI J. E. VAUGHN -DMS	DMS-DR-2384 VOLUME 02 SEPT., 1978
ARC - 3.5HWT - 173 / OH15 CR-151,366	RESULTS OF TESTS ON A 0.111-SCALE SPACE SHUTTLE VEHICLE SIMULATED ELEVON/WING GAP HEAT TRANSFER MODEL (53-O) IN THE AMES RESEARCH CENTER 3.5-FOOT HWT	MODEL 53-O (ELEVON/WING GAP)	TO EVALUATE EFFECT OF ELEVON DEFLECTION, GAP GEOMETRY, AND BOUNDARY LAYER STATE ON ELEVON/WING GAP HEATING	HEAT-TRANS	0.111 / 5.1 - 5.1	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI D.W.HERSEY M. M. MOSER JR. -DMS	DMS-DR-2385 SEPT., 1977
ARC - 3.5HWT - 177 / OH44 CR-151,368	RESULTS OF TESTS ON A 0.111-SCALE SPACE SHUTTLE VEHICLE SIMULATED ELEVON/ELEVON GAP HEAT TRANSFER MODEL (53-O) IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL	MODEL 53-O (ELEVON/ELEVON GAP)	TO EVALUATE EFFECT OF ELEVON DEFLECTION, GAP GEOMETRY, AND BOUNDARY	HEAT-TRANS	0.111 / 5.1 - 5.1	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI D.W.HERSEY M. M. MOSER JR. -DMS	DMS-DR-2386 SEPT., 1977

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -		TEST CANCELLED SE	TEST CANCELLED SE	FORCE		LARC /	J. W. BALL	DMS-DR-2387
LTPT -		PTEMBER 1978	PTEMBER 1978			LARC -	G. G. MCDONALD	TASK
246 /						LOW-TURBULENCE	-DMS	CANCELLED
LA104						PRESSURE TUNN		SEPT., 1978
						EL		
AEDC -	RESULTS OF WIND T	MODEL 83-0 (0.04-	1)DETERMINE ORBIT	HEAT-TRANS	0.04	ROCKWELL/	P. L. LEMOINE/RI	DMS-DR-2388
HWTB -	UNNEL TESTS OF TH	SCALE)	ER (60-0)WINDWARD		0.0175 /	AEDC -	J. E. VAUGHN	MARCH, 1984
V41B-R4A /	IN-SKIN THERMOCOU	MODEL 60-0 (0.017	SURFACE HEATING		7.90 -	HYPERSONIC WIN	G. R. LUTZ	
OH84A	PLE MODELS 83-0 (	5-SCALE)	OF TURBULENT		8.0	D TUNNEL (B)	-DMS	
CR-167,676	0.04-SCALE) AND 6		FLOW ORIGINATING					
	0-0 (0.0175-SCALE		IN THE AREA OF TH					
	) OF THE SPACE SH		E NOSE RCC/RSI IN					
	UTTLE ORBITER IN		TERFACE					
	THE AEDC VKF HYPE		2)DETERMINE ORBIT					
	RSONIC WIND TUNNE		ER (83-0) LEESIDE					
	L B (OH84A)		HEATING IN SAME					
			AREA					
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	2.45 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2389
87SWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	3.5	ARC -	OCKWELL INTERNATI	VOLUME 01
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			8-FOOT BY 7-FO	ONAL SPACE DIVISI	JUNE, 1981
OA145C	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			OT SUPERSONIC	ON	
CR-160,810	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			WIND TUNNEL (U	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU			NITARY)	-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145C)		PROPOSED INBOARD					
			ELEVON INTERACTIO					
			N MATH MODEL					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	2.45 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2389
87SWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	3.5	ARC -	OCKWELL INTERNATI	VOLUME 02
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			8-FOOT BY 7-FO	ONAL SPACE DIVISI	JUNE, 1981
OA145C	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			OT SUPERSONIC	ON	
CR-160,811	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			WIND TUNNEL (U	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU			NITARY)	-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145C)		PROPOSED INBOARD					
			ELEVON INTERACTIO					
			N MATH MODEL					
ARC -	RESULTS OF AN INV	B75C16E64F16FD3FR	VERIFY ORBITER VE	FORCE	2.45 -	ROCKWELL/	R. H. MULFINGER/R	DMS-DR-2389
87SWT -	ESTIGATION TO VER	22HG1M52N108N109N	HICLE 102 AERODYN	PRESSURE	3.5	ARC -	OCKWELL INTERNATI	VOLUME 03
118-1 /	IFY SHUTTLE ORBIT	110N111R20V27VT10	AMIC CHAR WITH RE			8-FOOT BY 7-FO	ONAL SPACE DIVISI	JUNE, 1981
OA145C	ER VEHICLE 102	VT11VT12VT13VT14	GARD TO: (1)BASIC			OT SUPERSONIC	ON	
CR-160,812	AERO CHARACTERIST	VT15VT16VT17W131	STABILITY AND CON			WIND TUNNEL (U	M. M. MANN	
	ICS UTILIZING AN		TROL(2)CONTROL SU			NITARY)	-DMS	
	.05-SCALE HI-FIDE		RFACE HINGE MOMEN					
	LITY REMOTE		TS(3)REYNOLDS					
	CONTROL MODEL (39		NUMBER EFFECTS(4)					
	-0) IN THE AMES R		HYSTERESIS AND CO					
	ESEARCH CENTER UN		NTROL SURFACE INT					
	ITARY WIND TUNNEL		ERACTIONS(5)					
	(OA145C)		PROPOSED INBOARD					
			ELEVON INTERACTIO					
			N MATH MODEL					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1194 / LA101 CR-160,481	LOW SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.0015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-0 SPACE SHUTTLE ORBITER TESTED IN THE NASA/LARC 4 FOOT UPWT (LEG 1) (LA101)	MODEL 44 0 SSV ORBITER WITH REMOTE CONTROLLED ELEVONS	OBTAIN LOW SUPERSONIC DATA ON CONTROL SURFACE LINEARITY AND SENSITIVITY TO MACH NUMBER FOR FINE CUT SPEED BRAKE, BODY FLAP AND RUDDER DEFLECTIONS, INVESTIGATE INTERACTIVE EFFECTS OF MUTUAL CONTROL SURFACE DEFLECTIONS, AND OBTAIN OTHER CONTROL SURFACE DATA	FORCE	0.015 / 1.5 - 2.86	LARC / LARC - UNITARY PLAN WIND TUNNEL	BERNARD SPENCER, JR./LARC GEORGE M. WARE/NASA J. W. BALL G. G. MCDONALD -DMS	DMS-DR-2390 JUNE, 1980
LARC - 8TPT - 779 / IA244 CR-167,346	RESULTS OF TESTS OF THE 0.10 SCALE SPACE SHUTTLE INTEGRATED VEHICLE IN THE LANGLEY RESEARCH CENTER 8-FOOT TRANSONIC PRESSURE TUNNEL, MODEL 72-OTS TEST IA244	OTS - SINGLE STING IN ORBITER OTS - ET AND SRB ON SEPERATE STING OTS - ATTACH STRUCTURE ON TANK ONLY	THE OBJECTIVESOF THIS TEST WAS TO OBTAIN ORBITER/ET ATTACH STRUCTURE LOADS AND TO DETERMINE THE EFFECT OF REYNOLDS NUMBER ON ELEVON HINGE MOMENTS.	FORCE	0.01 / 0.6 - 1.195	ROCKWELL/ LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	P.J. HAWTHORNE, R.SPANGLER /RI DELMA C. FREEMAN/LARC D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2391 MARCH, 1982
NRLAD - LSWT - 775 / OA250 CR-151,389	GROUND PROXIMITY TESTS OF THE 0.03-SCALE MODEL (45-0) SPACE SHUTTLE ORBITER IN THE ROCKWELL INTERNATIONAL NAAL LOW SPEED WIND TUNNEL	MODEL 45-0 ORB. 140A/B CONF. (MODIFIED)	TO DEFINE ORB. LAT.-DIRECT. STABILITY CHARACTERISTICS IN GROUND PROXIMITY: TO INVESTIGATE DISCREPANCIES IN LAT.-DIRECT. DATA OBTAINED IN OTHER NAAL TESTS	FORCE	0.03 / .20- .20	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL/RI J. E. VAUGHN M. M. MOSER JR. -DMS	DMS-DR-2392 DEC., 1977

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 228-1 / IH51A CR-167,679	RESULTS OF SSV INTERFERENCE HEATING TESTS ON A 0.04-SCALE THIN-SKIN THERMOCOUPLE MODEL (58-OT) UTILIZING A SIMULATED EXTERNAL TANK & ORBITER FOREBODY IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (IH51A)	OT FLAT PLATE	TO OBTAIN AERODYNAMIC INTERFERENCE HEATING EFFECTS ON THE UPPER PORTION OF THE SPACE SHUTTLE EXTERNAL TANK (ET) IN THE PRESENCE OF THE ORBITER FOREBODY & FORWARD ATTACH HARDWARE	HEAT-TRANS	0.04 / 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI P. L. LEMOINE/RI T. L. MULKEY G. W. KLUG-DMS	DMS-DR-2393 VOLUME 01 FEB., 1984
ARC - 3.5HWT - 228-1 / IH51A CR-167,680	RESULTS OF SSV INTERFERENCE HEATING TESTS ON A 0.04-SCALE THIN-SKIN THERMOCOUPLE MODEL (58-OT) UTILIZING A SIMULATED EXTERNAL TANK & ORBITER FOREBODY IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (IH51A)	OT FLAT PLATE	TO OBTAIN AERODYNAMIC INTERFERENCE HEATING EFFECTS ON THE UPPER PORTION OF THE SPACE SHUTTLE EXTERNAL TANK (ET) IN THE PRESENCE OF THE ORBITER FOREBODY & FORWARD ATTACH HARDWARE	HEAT-TRANS	0.04 / 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI P. L. LEMOINE/RI T. L. MULKEY G. W. KLUG-DMS	DMS-DR-2393 VOLUME 02 FEB., 1984

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ARC - 3.5HWT - 228-1 / IH51A CR-167,681	RESULTS OF SSV INTERFERENCE HEATING TESTS ON A 0.04-SCALE THIN-SKIN THERMOCOUPLE MODEL (58-OT) UTILIZING A SIMULATED EXTERNAL TANK & ORBITER FOREBODY IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (IH51A)	OT FLAT PLATE	TO OBTAIN AERODYNAMIC INTERFERENCE HEATING EFFECTS ON THE UPPER PORTION OF THE SPACE SHUTTLE EXTERNAL TANK (ET) IN THE PRESENCE OF THE ORBITER FOREBODY & FORWARD ATTACH HARDWARE	HEAT-TRANS	0.04 / 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI P. L. LEMOINE/RI T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2393 VOLUME 03 FEB., 1984
ARC - 3.5HWT - 228-1 / IH51A CR-167,682	RESULTS OF SSV INTERFERENCE HEATING TESTS ON A 0.04-SCALE THIN-SKIN THERMOCOUPLE MODEL (58-OT) UTILIZING A SIMULATED EXTERNAL TANK & ORBITER FOREBODY IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (IH51A)	OT FLAT PLATE	TO OBTAIN AERODYNAMIC INTERFERENCE HEATING EFFECTS ON THE UPPER PORTION OF THE SPACE SHUTTLE EXTERNAL TANK (ET) IN THE PRESENCE OF THE ORBITER FOREBODY & FORWARD ATTACH HARDWARE	HEAT-TRANS	0.04 / 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI P. L. LEMOINE/RI T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2393 VOLUME 04 FEB., 1984
LARC - 8TPT - 786 / LA111 CR-151,394	EFFECT OF SILTS POD ON THE TRANSONIC AERODYNAMIC CHARACTERISTICS OF A 0.015-SCALE SHUTTLE ORBITER MODEL (44-O) TESTED IN THE NASA/LARC 8-FOOT TPT	MODEL 44-O (SILTS POD)	TO DETERMINE EFFECT OF AERO. CHARACTERISTICS OF ORBITER RESULTING FROM ADDITION OF SILTS POD TO VERTICAL TAIL	FORCE	0.015 / 0.6 - 1.20	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	G. WARE, B. SPENCER, JR./RI G. G. MCDONALD -DMS	DMS-DR-2395 JAN., 1978

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1212 / LA110 CR-151,393	EFFECT OF SILTS P OD ON THE LOW SUP ERSONIC AERODYNAM IC CHARACTERISTIC S OF A 0.015-SCAL E SHUTTLE ORBITER MODEL (44-0) TES TED IN THE NASA/L ARC 4-FOOT UPWT (LEG 1)	MODEL 44-0 (SILTS POD)	TO DETERMINE EFFE CT OF AERO. CHARA CTERISTICS OF ORB ITER RESULTING FR OM ADDITION OF SI LTS POD TO VERTIC AL TAIL	FORCE	0.015 / 1.5 - 2.5	LARC / LARC - UNITARY PLAN W IND TUNNEL	G. WARE, B. SPENC ER, JR./LARC G. G. MCDONALD -DMS	DMS-DR-2396 DEC., 1977
LARC - 8TPT - 780 / LA113 CR-167,347	RESULTS OF WIND T UNNEL TESTS ON A 0.010 SCALE MODEL (72-OTS) ROCKWEL L SPACE SHUTTLE V EHICLE IN THE LAR C 8-FOOT TRANSONI C PRESSURE TUNNEL (LA113)	O -140A/B/C/R T -MODIFIED VEHIC LE 5 S -MODIFIED VEHIC LE 5	THE PURPOSE OF TH IS TEST WAS TO VE RIFY RESULTS OF E ARLIER TESTS (IA2 44) OF THE 72-OTS MODEL IN THE SAM E TUNNEL.	FORCE	0.01 / .9 - .9	LARC / LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	DELMA C. FREEMAN, W.I. SCALLION /L ARC J. W. BALL G. W. KLUG -DMS	DMS-DR-2397 APRIL, 1982
AEDC - PWT16T - 470 / IA105A CR-160,850	RESULTS OF TESTS USING A 0.03 SCAL E MODEL (47-OTS) OF THE SPACE SHUT TLE INTEGRATED VE HICLE IN THE AEDC 16 FOOT TRANSONI C PROPULSION WIND TUNNEL (IA105A)	B62C9E64W131M16N2 8N112R5V8FD3F9 T39 S27	TO OBTAIN AERODYN AMIC LOADS ON ALL VEHICLE ELEMENTS BY PRESSURE INTE GRATION AND MEASU RE LOADS DIRECTLY ON WING VERTICAL TAIL AND ELEVON HINGE MOMENTS.	FORCE PRESSURE	0.03 / 0.6 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	R.H.SPANGLER/RI L.P.LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2398 VOLUME 01 NOV., 1981
AEDC - PWT16T - 470 / IA105A CR-160,851	RESULTS OF TESTS USING A 0.03 SCAL E MODEL (47-OTS) OF THE SPACE SHUT TLE INTEGRATED VE HICLE IN THE AEDC 16 FOOT TRANSONI C PROPULSION WIND TUNNEL (IA105A)	B62C9E64W131M16N2 8N112R5V8FD3F9 T39 S27	TO OBTAIN AERODYN AMIC LOADS ON ALL VEHICLE ELEMENTS BY PRESSURE INTE GRATION AND MEASU RE LOADS DIRECTLY ON WING VERTICAL TAIL AND ELEVON HINGE MOMENTS.	FORCE PRESSURE	0.03 / 0.6 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	R.H.SPANGLER/RI L.P.LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2398 VOLUME 02 NOV., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - PWT16T - 470 / IA105A CR-160,852	RESULTS OF TESTS USING A 0.03 SCALE MODEL (47-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE AEDC 16 FOOT TRANSONIC PROPULSION WIND TUNNEL (IA105A)	B62C9E64W131M16N28N112R5V8FD3F9 T39 S27	TO OBTAIN AERODYNAMIC LOADS ON ALL VEHICLE ELEMENTS BY PRESSURE INTEGRATION AND MEASURE LOADS DIRECTLY ON WING VERTICAL TAIL AND ELEVON HINGE MOMENTS.	FORCE PRESSURE	0.03 / 0.6 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	R.H.SPANGLER/RI L.P.LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2398 VOLUME 03 NOV., 1981
LARC - UPWT - 1217 / LA114 CR-151,388	EFFECT OF SILTS POD ON THE HIGH SUPERSONIC AERODYNAMIC CHARACTERISTICS OF A 0.015-SCALE SHUTTLE ORBITER MODEL (44-O) TESTED IN THE NASA/LARC 4-FOOT UPWT (LEG 2)	MODEL 44-O (SILTS POD)	TO DETERMINE EFFECT OF AERO. CHARACTERISTICS OF ORBITER RESULTING FROM ADDITION OF SILTS POD TO VERTICAL TAIL	FORCE	0.015 / 3.0 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	G. WARE, B. SPENCER,JR./LARC G. G. MCDONALD -DMS	DMS-DR-2399 NOV., 1977
LERC - 10SWT - 042 / OA234 CR-160,518	RESULTS OF SSV ORBITER AIR DATA SYSTEM CALIBRATION TEST USING THE 0.10-SCALE ORBITER FOREBODY MODEL 99-O IN THE NASA/LEWIS 10 X 10-FOOT SUPERSONIC WIND TUNNEL (OA234)	ORBITER VEHICLE 102 FOREBODY	OBTAIN CALIBRATIONS OF 0.1 AND 0.2-SCALE ROSEMOUNT AIR DATA SYSTEM PROBES;MEASURE FOREBODY FLUSH SURFACE TAP PRESSURE DISTRIBUTIONS AND RCS PORT PRESSURES	FORCE	0.10 / 0.4 - 2.7	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	C.LOVELL/LERC R.R.BURROWS/RI W. B. MEINDERS -DMS	DMS-DR-2400 OCT., 1980

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11,97,87- 705-1 / IS1A/B/C OS3 CR-151,395	AERONOISE TEST RESULTS USING A 0.040-SCALE SPACE SHUTTLE VEHICLE CONFIGURATION 2A MODEL (11-OTS) IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	11-OTS (ORB, ET, 2 SRB'S)	TO MEASURE FLUCTUATING PRESSURE (AERONOISE) ENVIRONMENT ON LAUNCH VEHICLE DURING TRANSONIC/SUPERSONIC ASCENT AND ORBITER DURING SUPERSONIC ENTRY	PRESSURE	0.040 / 06 - 3.5	ROCKWELL/ ARC - 11-FOOT, 9-FOOT, 8-FOOT, UNITARY WIND TUNNEL	B. J. HERRERA, C. L. STEVENS/RI D.W.HERSEY M. M. MOSER JR. -DMS	DMS-DR-2401 JAN., 1978
NRLAD - LSWT - 766 / OA223 CR-151,763	SYSTEM CHECKOUT OF THE 0.05-SCALE SPACE SHUTTLE VEHICLE ORBITER 102 MODEL (39-O) IN THE NAAL LOW SPEED WIND TUNNEL(OA223)	B75C16F64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14VT15VT16VT17W131	CHECKOUT OF ALL MODEL CONTROL SURFACE AND PRESSURE SYSTEMS AND ESTABLISH THE OPERATIONAL STATUS OF THE COMPLETE MODEL	FORCE	0.24 - 0.24	ROCKWELL/ NRLAD - LOW SPEED WIND TUNNEL	R. C. MENNELL/ROCKWELL INTERNATIONAL D.W.HERSEY M. M. MANN -DMS	DMS-DR-2402 NOV., 1978
AEDC - PWT16T - 470 / IA156A CR-160,515	RESULTS OF TESTS USING A 0.02-SCALE MODEL (89-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE AEDC 16-FOOT TRANSONIC PROPULSION WIND TUNNEL (IA156A)	B75C16E64F16FR22HG1M52N108N109N110N111R20U1V27V29VT10VT11VT14VT17W131T39S27	TO OBTAIN FORCE AND MOMENT DATA ON ALL VEHICLE ELEMENTS (ORBITER, EXTERNAL TANK, AND EACH SOLID ROCKET BOOSTER), WING AND VERTICAL TAIL LOAD INDICATORS, ELEVON AND RUDDER HINGE MOMENTS, AND BASE-BODYFLAP PRESSURE DATA	FORCE	0.3 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	J. J. DAILEDA AND J. MARROQUIN/ROCKWELL INTERNATIONAL M. M. MANN -DMS	DMS-DR-2403 VOLUME 01 JAN., 1981

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AEDC - PWT16T - 470 / IA156A CR-160,516	RESULTS OF TESTS USING A 0.02-SCAL E MODEL (89-OTS) OF THE SPACE SHUT TLE INTEGRATED VE HICLE IN THE AEDC 16-FOOT TRANSONI C PROPULSION WIND TUNNEL (IA156A)	B75C16E64F16FR22H G1M52N108N109N110 N111R20U1V27V29VT 10VT11VT14VT17W13 1T39S27	TO OBTAIN FORCE A ND MOMENT DATA ON ALL VEHICLE ELEM ENTS (ORBITER, EX TERNAL TANK, AND EACH SOLID ROCKET BOOSTER), WING A ND VERTICAL TAIL LOAD INDICATORS, ELEVON AND RUDDER HINGE MOMENTS, A ND BASE-BODYFLAP PRESSURE DATA	FORCE	0.3 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	J. J. DAILEDA AND J. MARROQUIN/ROC KWELL INTERNATION AL M. M. MANN -DMS	DMS-DR-2403 VOLUME 02 JAN., 1981
AEDC - PWT16T - 470 / IA156A CR-160,517	RESULTS OF TESTS USING A 0.02-SCAL E MODEL (89-OTS) OF THE SPACE SHUT TLE INTEGRATED VE HICLE IN THE AEDC 16-FOOT TRANSONI C PROPULSION WIND TUNNEL (IA156A)	B75C16E64F16FR22H G1M52N108N109N110 N111R20U1V27V29VT 10VT11VT14VT17W13 1T39S27	TO OBTAIN FORCE A ND MOMENT DATA ON ALL VEHICLE ELEM ENTS (ORBITER, EX TERNAL TANK, AND EACH SOLID ROCKET BOOSTER), WING A ND VERTICAL TAIL LOAD INDICATORS, ELEVON AND RUDDER HINGE MOMENTS, A ND BASE-BODYFLAP PRESSURE DATA	FORCE	0.3 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	J. J. DAILEDA AND J. MARROQUIN/ROC KWELL INTERNATION AL M. M. MANN -DMS	DMS-DR-2403 VOLUME 03 JAN., 1981
ARC - 11TWT - 275-1 / IA119 CR-160,510	RESULTS OF TESTS USING A 0.020-SCA LE MODEL (88-OTS) OF THE SPACE SHU TTLE INTEGRATED V EHICLE JET PLUME IN THE NASA/ARC U PWT 11 X 11-FOOT LEC (TEST IA119)	88-OTS-.02 SCALE OF THE INTEGRATED SPACE SHUTTLE VE HICLE	TO DETERMINE THE EFFECTS OF THE MA IN PROPULSION SYS TEM (MPS) AND SOL ID ROCKET BOOSTER (SRB) PLUMES ON VEHICLE PRESSURE DISTRIBUTIONS, WI NG BENDING AND TO RSION LOADS AND E LEVON HINGE MOMEN TS.	FORCE PRESSURE	.020 / .6 - 1.40	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	T. J. DZIUBALA,J. STONE/RI S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2404 VOLUME 01 OCT., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF TESTS	88-OTS-.02 SCALE	TO DETERMINE THE	FORCE	.020 /	ROCKWELL/	T.J. DZIUBALA,J.	DMS-DR-2404
11TWT -	USING A 0.020-SCA	OF THE INTEGRATED	EFFECTS OF THE MA	PRESSURE	.6 -	ARC -	STONE/RI	VOLUME 02
275-1 /	LE MODEL (88-OTS)	SPACE SHUTTLE VE	IN PROPULSION SYS		1.40	11-FOOT TRANSO	S. R. HOULIHAN	OCT., 1980
IA119	OF THE SPACE SHU	HICLE	TEM (MPS) AND SOL			NIC WIND TUNNE	B. J. BURST	
CR-160,511	TTLE INTEGRATED V		ID ROCKET BOOSTER			L (UNITARY)	-DMS	
	EHICLE JET PLUME		(SRB) PLUMES ON					
	IN THE NASA/ARC U		VEHICLE PRESSURE					
	PWT 11 X 11-FOOT		DISTRIBUTIONS, WI					
	LEC (TEST IA119)		NG BENDING AND TO					
			RSION LOADS AND E					
			LEVON HINGE MOMEN					
			TS.					
ARC -	RESULTS OF TESTS	88-OTS-.02 SCALE	TO DETERMINE THE	FORCE	.020 /	ROCKWELL/	T.J. DZIUBALA,J.	DMS-DR-2404
11TWT -	USING A 0.020-SCA	OF THE INTEGRATED	EFFECTS OF THE MA	PRESSURE	.6 -	ARC -	STONE/RI	VOLUME 03
275-1 /	LE MODEL (88-OTS)	SPACE SHUTTLE VE	IN PROPULSION SYS		1.40	11-FOOT TRANSO	S. R. HOULIHAN	OCT., 1980
IA119	OF THE SPACE SHU	HICLE	TEM (MPS) AND SOL			NIC WIND TUNNE	B. J. BURST	
CR-160,512	TTLE INTEGRATED V		ID ROCKET BOOSTER			L (UNITARY)	-DMS	
	EHICLE JET PLUME		(SRB) PLUMES ON					
	IN THE NASA/ARC U		VEHICLE PRESSURE					
	PWT 11 X 11-FOOT		DISTRIBUTIONS, WI					
	LEC (TEST IA119)		NG BENDING AND TO					
			RSION LOADS AND E					
			LEVON HINGE MOMEN					
			TS.					
ARC -	RESULTS OF TESTS	88-OTS-.02 SCALE	TO DETERMINE THE	FORCE	.020 /	ROCKWELL/	T.J. DZIUBALA,J.	DMS-DR-2404
11TWT -	USING A 0.020-SCA	OF THE INTEGRATED	EFFECTS OF THE MA	PRESSURE	.6 -	ARC -	STONE/RI	VOLUME 04
275-1 /	LE MODEL (88-OTS)	SPACE SHUTTLE VE	IN PROPULSION SYS		1.40	11-FOOT TRANSO	S. R. HOULIHAN	OCT., 1980
IA119	OF THE SPACE SHU	HICLE	TEM (MPS) AND SOL			NIC WIND TUNNE	B. J. BURST	
CR-160,513	TTLE INTEGRATED V		ID ROCKET BOOSTER			L (UNITARY)	-DMS	
	EHICLE JET PLUME		(SRB) PLUMES ON					
	IN THE NASA/ARC U		VEHICLE PRESSURE					
	PWT 11 X 11-FOOT		DISTRIBUTIONS, WI					
	LEC (TEST IA119)		NG BENDING AND TO					
			RSION LOADS AND E					
			LEVON HINGE MOMEN					
			TS.					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 12PT - 218-1 / OA101 CR-151,756	RESULTS OF A LOW SPEED APPROACH AN D LANDING EXPERIM ENTAL INVESTIGA- TION OF A 0.050-S CALE SPACE SHUTTL E ORBITER MODEL (39-0) IN THE NASA /AMES RESEARCH CE NTER'S 12-FOOT PR ESSURE WIND TUNNE L (OA101)	OV102	TO OBTAIN BASIC S TABILITY AND CONT ROL DATA FOR OV10 2 ORBITER, DETERM INE INDIVIDUAL PA NEL HINGE MOMENTS , OBTAIN GROUND E FFECTS ON PITCH A ND LATERAL DIRECT IONAL STABILITY A ND CONTROL WITH L ANDING GEAR DEPLO YED, AND CALIBRAT E THE OV102 AIR D ATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSU RE TUNNEL	W.M. ZEMAN/RI, R. H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NAS A-ARC, C.O. ALLEN /NASA-ARC D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2405 VOLUME 01 SEPT., 1978
ARC - 12PT - 218-1 / OA101 CR-151,757	RESULTS OF A LOW SPEED APPROACH AN D LANDING EXPERIM ENTAL INVESTIGA- TION OF A 0.050-S CALE SPACE SHUTTL E ORBITER MODEL (39-0) IN THE NASA /AMES RESEARCH CE NTER'S 12-FOOT PR ESSURE WIND TUNNE L (OA101)	OV102	TO OBTAIN BASIC S TABILITY AND CONT ROL DATA FOR OV10 2 ORBITER, DETERM INE INDIVIDUAL PA NEL HINGE MOMENTS , OBTAIN GROUND E FFECTS ON PITCH A ND LATERAL DIRECT IONAL STABILITY A ND CONTROL WITH L ANDING GEAR DEPLO YED, AND CALIBRAT E THE OV102 AIR D ATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSU RE TUNNEL	W.M. ZEMAN/RI, R. H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NAS A-ARC, C.O. ALLEN /NASA-ARC D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2405 VOLUME 02 SEPT., 1978

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 12PT - 218-1 / OA101 CR-151,758	RESULTS OF A LOW SPEED APPROACH AND LANDING EXPERIMENTAL INVESTIGATION OF A 0.050-SCALE SPACE SHUTTLE ORBITER MODEL (39-0) IN THE NASA/AMES RESEARCH CENTER'S 12-FOOT PRESSURE WIND TUNNEL (OA101)	OV102	TO OBTAIN BASIC STABILITY AND CONTROL DATA FOR OV102 ORBITER, DETERMINE INDIVIDUAL PANEL HINGE MOMENTS, OBTAIN GROUND EFFECTS ON PITCH AND LATERAL DIRECTIONAL STABILITY AND CONTROL WITH LANDING GEAR DEPLOYED, AND CALIBRATE THE OV102 AIR DATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSURE TUNNEL	W.M. ZEMAN/RI, R.H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NASA-ARC, C.O. ALLEN/NASA-ARC D.W.HERSEY G. W. KLUG-DMS	DMS-DR-2405 VOLUME 03 SEPT., 1978
ARC - 12PT - 218-1 / OA101 CR-151,759	RESULTS OF A LOW SPEED APPROACH AND LANDING EXPERIMENTAL INVESTIGATION OF A 0.050-SCALE SPACE SHUTTLE ORBITER MODEL (39-0) IN THE NASA/AMES RESEARCH CENTER'S 12-FOOT PRESSURE WIND TUNNEL (OA101)	OV102	TO OBTAIN BASIC STABILITY AND CONTROL DATA FOR OV102 ORBITER, DETERMINE INDIVIDUAL PANEL HINGE MOMENTS, OBTAIN GROUND EFFECTS ON PITCH AND LATERAL DIRECTIONAL STABILITY AND CONTROL WITH LANDING GEAR DEPLOYED, AND CALIBRATE THE OV102 AIR DATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSURE TUNNEL	W.M. ZEMAN/RI, R.H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NASA-ARC, C.O. ALLEN/NASA-ARC D.W.HERSEY G. W. KLUG-DMS	DMS-DR-2405 VOLUME 04 SEPT., 1978

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ARC - 12PT - 218-1 / OA101 CR-151,760	RESULTS OF A LOW SPEED APPROACH AND LANDING EXPERIMENTAL INVESTIGATION OF A 0.050-SCALE SPACE SHUTTLE ORBITER MODEL (39-0) IN THE NASA/AMES RESEARCH CENTER'S 12-FOOT PRESSURE WIND TUNNEL (OA101)	OV102	TO OBTAIN BASIC STABILITY AND CONTROL DATA FOR OV102 ORBITER, DETERMINE INDIVIDUAL PANEL HINGE MOMENTS, OBTAIN GROUND EFFECTS ON PITCH AND LATERAL DIRECTIONAL STABILITY AND CONTROL WITH LANDING GEAR DEPLOYED, AND CALIBRATE THE OV102 AIR DATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSURE TUNNEL	W.M. ZEMAN/RI, R.H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NASA-ARC, C.Q. ALLEN/NASA-ARC D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2405 VOLUME 05 SEPT., 1978
ARC - 12PT - 218-1 / OA101 - CR-151,761	RESULTS OF A LOW SPEED APPROACH AND LANDING EXPERIMENTAL INVESTIGATION OF A 0.050-SCALE SPACE SHUTTLE ORBITER MODEL (39-0) IN THE NASA/AMES RESEARCH CENTER'S 12-FOOT PRESSURE WIND TUNNEL (OA101)	OV102	TO OBTAIN BASIC STABILITY AND CONTROL DATA FOR OV102 ORBITER, DETERMINE INDIVIDUAL PANEL HINGE MOMENTS, OBTAIN GROUND EFFECTS ON PITCH AND LATERAL DIRECTIONAL STABILITY AND CONTROL WITH LANDING GEAR DEPLOYED, AND CALIBRATE THE OV102 AIR DATA SYSTEM (FLUSH STATIC TAPS)	FORCE PRESSURE	0.050/ 0.25 - 0.40	ROCKWELL/ ARC - 12-FOOT PRESSURE TUNNEL	W.M. ZEMAN/RI, R.H. MULFINGER/RI, R.R. BURROWS/RI J.J. BROWNSON/NASA-ARC, C.Q. ALLEN/NASA-ARC D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2405 VOLUME 06 OCT., 1978

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 649 / IA181 CR-167,348	RESULTS OF AN EXPERIMENTAL INVESTIGATION IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A .004-SCALE MODEL (74-OTS) SSLV TO DETERMINE INFLUENCE OF ORBITER AND SRB'S ON TEH EXTERNAL TANK NOSE PRESSURE DISTRIBUTION (IA181)	B62,C12,E62,F10,M16,N28,R5,V8,W127 AT16,AT17,AT18,FL5,FL6,FL9,FR6,PT13,PT14,PT20,T20 PS7,S25	TO OBTAIN PRESSURE DATA IN THE NOSE REGION OF THE EXTERNAL TANK	FORCE	.004 / 0.6- 1.25	ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	W.P. GARTON/RI J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2406 JULY, 1982
ARC - 3.5HWT - 233-1 / IH73 CR-167,374	RESULTS OF M=5.3 HEAT TRANSFER TESTS ON THE SECOND STAGE SPACE SHUTTLE CONFIGURATION AT RTLS ABORT MISSION PROFILE CONDITIONS USING THE 0.006 SCALE MODEL 50-0 & 41-T IN THE NASA/ARC 3.5-FOOT HWT (IH73)	B22C7F5M4V7W111 T8	TO OBTAIN HYPERSONIC HEATING DATA TO VERIFY ORBITER/ET HEATING PREDICTIONS FOR THE ASCENT RTLS ABORT MISSION PROFILE	HEAT-TRANS	0.006 / 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	P.L. LEMOINE/RI C.L. BERTHOLD/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2407 SEPT., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF TESTS	B75C16E64F16FR22H	TO OBTAIN FORCE A	PRESSURE	1.55 -	ROCKWELL/	J. J. DAILEDA AND	DMS-DR-2408
97SWT -	USING A 0.02-SCAL	G1M52N108N109N110	ND MOMENT DATA ON	FORCE	2.5	ARC -	J. MARROQUIN/ROC	VOLUME 01
272 /	E MODEL (89-OTS)	N111R20U1V27V29VT	ALL VEHICLE ELEM			9-FOOT BY 7-FO	KWELL INTERNATION	JULY, 1980
IA156B	OF THE SPACE SHUT	10VT11VT14VT17W13	ENTS (ORBITER, EX			OT SUPERSONIC	AL	
CR-160,498	TLE INTEGRATED VE	1T39S27	TERNAL TANK, AND			WIND TUNNEL (U	M. M. MANN	
	HICLE IN THE NASA		EACH SOLID ROCKET			NITARY)	-DMS	
	/AMES RESEARCH CE		BOOSTER), WING A					
	NTER 9X7 FOOT SUP		ND VERTICAL TAIL					
	ERSONIC WIND TUNN		LOAD INDICATORS,					
	EL (IA156B)		ELEVON AND RUDDER					
			HINGE MOMENTS, A					
			ND BASE-BODYFLAP					
			PRESSURE DATA					
ARC -	RESULTS OF TESTS	B75C16E64F16FR22H	TO OBTAIN FORCE A	PRESSURE	1.55 -	ROCKWELL/	J. J. DAILEDA AND	DMS-DR-2408
97SWT -	USING A 0.02-SCAL	G1M52N108N109N110	ND MOMENT DATA ON	FORCE	2.5	ARC -	J. MARROQUIN/ROC	VOLUME 02
272 /	E MODEL (89-OTS)	N111R20U1V27V29VT	ALL VEHICLE ELEM			9-FOOT BY 7-FO	KWELL INTERNATION	JULY, 1980
IA156B	OF THE SPACE SHUT	10VT11VT14VT17W13	ENTS (ORBITER, EX			OT SUPERSONIC	AL	
CR-160,499	TLE INTEGRATED VE	1T39S27	TERNAL TANK, AND			WIND TUNNEL (U	M. M. MANN	
	HICLE IN THE NASA		EACH SOLID ROCKET			NITARY)	-DMS	
	/AMES RESEARCH CE		BOOSTER), WING A					
	NTER 9X7 FOOT SUP		ND VERTICAL TAIL					
	ERSONIC WIND TUNN		LOAD INDICATORS,					
	EL (IA156B)		ELEVON AND RUDDER					
			HINGE MOMENTS, A-					
			ND BASE-BODYFLAP					
			PRESSURE DATA					

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 272 / IA156B CR-160,500	RESULTS OF TESTS USING A 0.02-SCALE MODEL (89-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA/AMES RESEARCH CENTER 9X7 FOOT SUPERSONIC WIND TUNNEL (IA156B)	B75C16E64F16FR22HG1M52N108N109N110N111R20U1V27V29VT10VT11VT14VT17W131T39S27	TO OBTAIN FORCE AND MOMENT DATA ON ALL VEHICLE ELEMENTS (ORBITER, EXTERNAL TANK, AND EACH SOLID ROCKET BOOSTER), WING AND VERTICAL TAIL LOAD INDICATORS, ELEVON AND RUDDER HINGE MOMENTS, AND BASE-BODYFLAP PRESSURE DATA	PRESSURE FORCE	1.55 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J. J. DAILEDA AND J. MARROQUIN/ROCKWELL INTERNATIONAL M. M. MANN - DMS	DMS-DR-2408 VOLUME 03 JULY, 1980
LARC - 8TPT - 803 / LA115 CR-160,842	ADDITIONAL TRANSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015 SCALE(REMOTELY CONTROLLED ELEVON) MODEL 44-0 SPACE SHUTTLE ORBITER TESTED IN THE NASA/LARC 8-FOOT TPT (LA115)	ORBITER	VERIFY STABILITY AND CONTROL INCREMENTS DERIVED FROM PREVIOUS TESTS SUBJECTED TO UNKNOWN BLOCKAGE AND SHOCK REFLECTION EFFECTS AND OBTAIN ADDITIONAL STABILITY AND CONTROL DATA	FORCE	0.015 / .6 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	B. SPENCER, JR., G. M. WARE, LARC J. UNDERWOOD, JSC B. J. BURST - DMS	DMS-DR-2409 SEPT., 1981
AEDC - HWTB - V41B-R3A / OH56 CR-151,777	RESULTS OF THE NASA/RI ORBITER WING TIP HEATING TEST WITH THE 0.08-SCALE ORBITER WING MODEL (91-0) IN THE AEDC VKF B HYPERSONIC WIND TUNNEL (OH56)	ORBITER WING TIP (MODEL 91-0)	DETERMINE AERODYNAMIC HEATING TO THE ORBITER WING LEADING EDGE	HEAT-TRANS	7.9 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J. W. FOUST/RI D.W.HERSEY J. E. VAUGHN - DMS	DMS-DR-2410 JUNE, 1979

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 234-1 / IH90 CR-167,386	RESULTS OF HEAT TRANSFER TESTS ON THE SPACE SHUTTLE INTEGRATED VEHICLE, UNDER ASCENT CONDITIONS, USING THE 0.0175-SCALE 60-OTS MODEL IN THE NASA/ARC 3.5-FOOT HWT (IH-90)	60-OTS (B62C12E52F10M16R18V8W116T38S26)	TO OBTAIN HEAT-TRANSFER RATE DISTRIBUTIONS ON THE SPACE SHUTTLE INTEGRATED VEHICLE DURING SIMULATED FIRST-STAGE CONDITIONS FOR INTERMEDIATE FLIGHT ATTITUDES	HEAT-TRANS	0.0175/ 5.2- 5.2	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J.W. CUMMINGS, ARC T OKUNO /RI R.R. WATANABE/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2412 VOLUME 01 DEC., 1982
ARC - 3.5HWT - 234-1 / IH90 CR-167,387	RESULTS OF HEAT TRANSFER TESTS ON THE SPACE SHUTTLE INTEGRATED VEHICLE, UNDER ASCENT CONDITIONS, USING THE 0.0175-SCALE 60-OTS MODEL IN THE NASA/ARC 3.5-FOOT HWT (IH-90)	60-OTS (B62C12E52F10M16R18V8W116T38S26)	TO OBTAIN HEAT-TRANSFER RATE DISTRIBUTIONS ON THE SPACE SHUTTLE INTEGRATED VEHICLE DURING SIMULATED FIRST-STAGE CONDITIONS FOR INTERMEDIATE FLIGHT ATTITUDES	HEAT-TRANS	0.0175/ 5.2- 5.2	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J.W. CUMMINGS, ARC T OKUNO /RI R.R. WATANABE/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2412 VOLUME 02 DEC., 1982
ARC - 97SWT - 242-1 / IA105B CR-160,858	RESULTS OF TESTS USING A 0.03 SCALE MODEL (47-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA/ARC 9X7 FOOT SUPERSONIC WIND TUNNEL (IA105B)	B62C9E64W131M16N28R5V8FD3F9T39S27	THE OBJECTIVES WERE TO OBTAIN AERODYNAMIC LOADS ON ALL VEHICLE ELEMENTS (O,T,S) BY PRESSURE INTEGRATION AND TO MEASURE LOADS DIRECTLY BY LOAD INDICATORS ON THE WING, VERTICAL TAIL AND ELEVONS	FORCE	0.03/ 1.55- 2.50	NRLAD / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R.H.SPANGLER/RI L.P.LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2413 VOLUME 01 FEB., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 242-1 / IA105B CR-160,859	RESULTS OF TESTS USING A 0.03 SCAL E MODEL (47-OTS) OF THE SPACE SHUT TLE INTEGRATED VE HICLE IN THE NASA /ARC 9X7 FOOT SUP ERSONIC WIND TUNN EL (IA105B)	B62C9E64W131M16N2 8R5V8FD3F9 T39S27	THE OBJECTIVES WE RE TO OBTAIN AERO DYNAMIC LOADS ON ALL VEHICLE ELEME NTS (O.T.S) BY PR ESSURE INTEGRATIO N AND TO MEASURE LOADS DIRECTLY BY LOAD INDICATORS ON THE WING, VERT ICAL TAIL AND ELE VONS	FORCE	0.03/ 1.55- 2.50	NRLAD / ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	R.H.SPANGLER/RI L.P.LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2413 VOLUME 02 FEB., 1982
AEDC - PWT16T - 431 / OA232 CR-160,484	CALIBRATION TESTS OF THE SPACE SHU TTLE AIR DATA SYS TEM USING A 0.10- SCALE ORBITER FOR EBODY MODEL (99-0) IN THE AEDC 16T PROPULSION WIND TUNNEL (OA232)	B74C16N108PR4PR7P R8PR14VT18VT19 99-0	TO PROVIDE A CALI BRATION OF THE SI DE-MOUNTED AIR DA TA PROBES AND THE NOSE BOOM-MOU NTED FT PROBE, I. E. DETERMINE LOCA L ANGLE OF ATTACK , MEASURE PROBE S TATIC PRESSURE ER ROR, AND DETERMIN E EFFECT OF PROBE SCALE	FORCE	0.10/ 0.2 - 1.55	NRLAD / AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	W.E.WHITE/ARO,INC . AEDC DIVISION T.J.DZIUBALA AND R.R.BURROWS/ RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2414 VOLUME 01 MAY, 1980
AEDC - PWT16T - 431 / OA232 CR-160,485	CALIBRATION TESTS OF THE SPACE SHU TTLE AIR DATA SYS TEM USING A 0.10- SCALE ORBITER FOR EBODY MODEL (99-0) IN THE AEDC 16T PROPULSION WIND TUNNEL (OA232)	B74C16N108PR4PR7P R8PR14VT18VT19 99-0	TO PROVIDE A CALI BRATION OF THE SI DE-MOUNTED AIR DA TA PROBES AND THE NOSE BOOM-MOU NTED FT PROBE, I. E. DETERMINE LOCA L ANGLE OF ATTACK , MEASURE PROBE S TATIC PRESSURE ER ROR, AND DETERMIN E EFFECT OF PROBE SCALE	FORCE	0.10/ 0.2 - 1.55	NRLAD / AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	W.E.WHITE/ARO,INC . AEDC DIVISION T.J.DZIUBALA AND R.R.BURROWS/ RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2414 VOLUME 02 MAY, 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - SWTA - V41B-P5A / OA208/209 CR-151,784	RESULTS OF TESTS USING A 0.02-SCALE MODEL (105-0) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER VON KARMAN FACILITY SUPERSONIC TUNNEL A (OA209) AND HYPERSONIC TUNNEL B (OA208/209)	SSV 102 ORBITER CONFIGURATION MODEL 105-0	OBTAIN FORCE AND MOMENT DATA TO VERIFY THE ORBITER STABILITY AND CONTROL CHARACTERISTICS IN PITCH AND YAW, AND VERIFY CONTROL EFFECTIVENESS AND TRIM LIMITS IN THE MACH NUMBER RANGE FROM 2 TO 8	FORCE	0.02 / 2.0 - 8.0	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J.J.DAILEDA/ROCKWELL J.L.JORDAN/ARO,INC G. G. MCDONALD -DMS	DMS-DR-2415 VOLUME 01 JAN., 1980
AEDC - SWTA - V41A-P5A / OA208/209 CR-151,785	RESULTS OF TESTS USING A 0.02-SCALE MODEL (105-0) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER VON KARMAN FACILITY SUPERSONIC TUNNEL A (OA209) AND HYPERSONIC TUNNEL B (OA208/209)	SSV 102 ORBITER CONFIGURATION MODEL 105-0	OBTAIN FORCE AND MOMENT DATA TO VERIFY THE ORBITER STABILITY AND CONTROL CHARACTERISTICS IN PITCH AND YAW, AND VERIFY CONTROL EFFECTIVENESS AND TRIM LIMITS IN THE MACH NUMBER RANGE FROM 2 TO 8	FORCE	0.02 / 2.0 - 8.0	ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J.J.DAILEDA/ROCKWELL J.L.JORDAN/ARO,INC G. G. MCDONALD -DMS	DMS-DR-2415 VOLUME 02 JAN., 1980

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MSFC - TWT - 668 / IA603 CR-160,824	RESULTS OF TESTS IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A .004 SCALE MODEL (74-OTS) THRUST AUGMENTED SPACE SHUTTLE INTEGRATED VEHICLE (IA603)	LBM SSLV ORBITER SRB	TO OBTAIN 6-COMPONENT FORCE & MOMENT DATA OF ELEMENTS LBM,O,SRB FOR INTERFACE STRUCTURES ANALYSIS OF ET/LBM, O/ET, SRB/ET & OF TOTAL VEHICLE FOR ASSESSING LBM INFLUENCE ON SSLV FOREBODY COEFFS; TO OBTAIN WING & ELEVON FORCE AND MOMENT DATA FOR WING STRUCTURES ANALYSIS	FORCE	0.004 / .6 - 4.96	ROCKWELL/ MSFC - TRISONIC WIND TUNNEL	N.S. DOUGHERTY, A.C. MANSFIELD/RI-HUNTSVILLE J. E. VAUGHN C. R. EDWARDS -DMS	DMS-DR-2416 JUNE, 1981
ARC - 3.5HWT - 235 / OH58 CR-151,770	RESULTS OF AEROTHERMODYNAMIC HEAT TRANSFER TESTS ON A 0.03-SCALE MODEL (93-0) SIMULATING THE ELEVON/ELEVON GAP AND ELEVON/FUSELAGE INTERFACE REGIONS OF THE SS ORBITER IN THE ARC 3.5HWT.	93-0 FLAT PLATE	TO MEASURE DETAILED ELEVON/ELEVON GAP + FUSELAGE/ELEVON INTERFACE HEATING DISTRIBUTION TO VERIFY DESIGN HEATING RATES.	HEAT-TRANS PRESSURE	0.04 , 0.03 / 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J. CLEARY/NASA-ARC, R.B. KINGSLAND/RI D.W.HERSEY M. M. MANN -DMS	DMS-DR-2417 JUNE, 1979
ARC - 3.5HWT - 227 / IH100 CR-151,414	RESULTS OF TESTS OF A DEVELOPMENT FLIGHT INSTRUMENTATION GAS TEMPERATURE PROBE IN THE AMES RESEARCH CENTER 3.5 FT. HYPERSONIC WIND TUNNEL (IH100)	WEDGE SHAPED MODEL TO HOLD DFI GAS TEMP. PROBE	TO OBTAIN THE TEMPERATURE RESPONSE CHARACTERISTICS OF AN EXISTING DFI GAS TEMPERATURE PROBE	HEAT-TRANS	5.0 - 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	B. J. HERRERA/RI	DMS-DR-2418 OCT., 1978

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 16TT - 325 / OA270B/C CR-151,762	RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE AND SHOCK REFLECTION EFFECTS UTILIZING .02-SCALE HI-FIDELITY MODELS 104-0 AND 105-0 IN THE LANGLEY RESEARCH CENTER 16-FT. TRANSONIC WIND TUNNEL OA270B/C	SSV OV102 ORBITER CONFIGURATION MODEL 104-0 INSTRUMENTED ELEVONS SSV OV102 ORBITER CONFIGURATION MODEL 105-0 RIGID FORCE MODEL	DETERMINE AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS AND CONTROL SURFACE HINGE MOMENTS ON THE OV102 CONFIGURATION	FORCE	0.6 - 1.3	ROCKWELL/ LARC - 16-FOOT TRANSONIC TUNNEL	R. H. MULFINGER, J. J. DAILEDA/ROCKWELL INTERNATIONAL E. PUTNAM, W. COMPTON/LARC G. G. MCDONALD -DMS	DMS-DR-2419 SEPT., 1978
AEDC - HWTB - V41B-V2A / OH103A CR-167,385	RESULTS OF TESTS ON A 0.04-SCALE SPACE SHUTTLE ORBITER FOREBODY MODEL (83-0) IN THE AEDC VKF HYPERSONIC WIND TUNNEL 'B' TO OBTAIN AERODYNAMIC HEATING DISTRIBUTION ON LOWER FUSELAGE AND RCS NOZZLE AREAS (OH103A)	MODEL 83-0 LINES VL70-000140C	DETERMINE DETAIL HEATING RCC-RSI INTERFACE AREA ON LOWER FUSELAGE AND OBTAIN RCS NOZZLE HEATING	HEAT-TRANS	0.04 / 7.88 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	P.L. LAMOINE/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2420 NOV., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	CALIBRATION TESTS	99-0	THE OBJECTIVES OF	FORCE	0.10/	ROCKWELL/	J.GAWIENOWSKI, W.	DMS-DR-2421
97SWT -	OF THE SPACE SHU	B74C16N108PR7PR8P	THESE TESTS WERE		1.6-	ARC -	ANDERSON/ ARC	VOLUME 01
282-1 /	TTLE ORBITER AIR	R14VT18VT19	TO DETERMINE AIR		3.5	9-FOOT BY 7-FO	R.R.BURROWS, W.R.	DEC., 1980
87SWT -	DATA SYSTEM USING		DATA SYSTEM PROB			OT SUPERSONIC	CARLSON/ RI	
OA251B/C	A 0.10-SCALE ORB		E PITOT AND STATI			WIND TUNNEL (U	D.W.HERSEY	
CR-160,495	ITER FOREBODY MOD		C PRESSURE ERRORS			NITARY)	G. W. KLUG	
	EL (99.0) IN THE		, THE EFFECT OF P			8-FOOT BY 7-FO	-DMS	
	NASA AMES RESEARC		ROBE SCALE ON STA			OT SUPERSONIC		
	H CENTER 9 X 7 AN		TIC PRESSURE CALI			WIND TUNNEL (U		
	D 8 X 7-FOOT LEGS		BRATION; CALCULAT			NITARY)		
	OF THE UNITARY P		E ANGLE-OF-ATTACK					
	LAN WIND TUNNEL (		SENSOR; EVALUATE					
	OA251B AND C)		TWO 'FLUSH PORT'					
			ALTERNATE AIR DAT					
			A SYSTEMS					
ARC -	CALIBRATION TESTS	99-0	THE OBJECTIVES OF	FORCE	0.10/	ROCKWELL/	J.GAWIENOWSKI, W.	DMS-DR-2421
97SWT -	OF THE SPACE SHU	B74C16N108PR7PR8P	THESE TESTS WERE		1.6-	ARC -	ANERSON/ ARC	VOLUME 02
282-1 /	TTLE ORBITER AIR	R14VT18VT19	TO DETERMINE AIR		3.5	9-FOOT BY 7-FO	R.R.BURROWS, W.R.	DEC., 1980
87SWT -	DATA SYSTEM USING		DATA SYSTEM PROB			OT SUPERSONIC	CARLSON/ RI	
OA251B/C	A 0.10-SCALE ORB		E PITOT AND STATI			WIND TUNNEL (U	D.W.HERSEY	
CR-160,496	ITER FOREBODY MOD		C PRESSURE ERRORS			NITARY)	G. W. KLUG	
	EL (99.0) IN THE		, THE EFFECT OF P			8-FOOT BY 7-FO	-DMS	
	NASA AMES RESEARC		ROBE SCALE ON STA			OT SUPERSONIC		
	H CENTER 9 X 7 AN		TIC PRESSURE CALI			WIND TUNNEL (U		
	D 8 X 7-FOOT LEGS		BRATION; CALCULAT			NITARY)		
	OF THE UNITARY P		E ANGLE-OF-ATTACK					
	LAN WIND TUNNEL (		SENSOR; EVALUATE					
	OA251B AND C)		TWO 'FLUSH PORT'					
			ALTERNATE AIR DAT					
			A SYSTEMS					

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AEDC - SWTA - V41A-20 / FH15 CR-151,767	RESULTS OF THIN SKIN THERMOCOUPLE TESTS CONDUCTED IN THE AEDC VKF TUNNEL A TO DETERMINE HEAT TRANSFER RATES ON A .0275 SCALE SSV ET FOREBODY (FH15)	30/10/40-DEGREE CONE OGIVE	TO DETERMINE THE CHANGE IN HEATING, IF ANY DUE TO THE SMALL CHANGE IN THE NOSE SPIKE CONFIGURATION^ + TO MEASURE INTERFERENCE HEATING ON THE SURFACE AROUND THE FORWARD FAIRING,TRAYS,GOX LINES + BRACKETS WITH + WITHOUT THESE PROTUBERANCES.	HEAT-TRANS	3.0 - 5.5	MMC / AEDC - SUPERSONIC WIND TUNNEL (A)	HARRY R. CARROLL/ MMC J. E. VAUGHN C. R. EDWARDS -DMS	DMS-DR-2422 APRIL, 1979
ARC - 3.5HWT - 237 / FH16 CR-151,768	RESULTS OF THIN SKIN THERMOCOUPLE TESTS CONDUCTED IN THE NASA/ARC 3.5 FT. HYPERSONIC WIND TUNNEL TO DETERMINE HEAT TRANSFER RATES ON A .0275 SCALE SSV ET FOREBODY(FH16)	30,10,40 DEGREES CONICAL SPIKE FOR ET	DETERMINE THE CHANGE IN HEATING DUE TO THE CHANGE FROM 10,40 DEG CONICAL SPIKE TO A 30,10,40 DEGREES CONICAL SPIKE TO MEASURE INTERFERENCE HEATING ON THE SURFACE AROUND THE FORWARD FAIRING, TRAYS, GOX LINE AND BRACKETS	HEAT-TRANS		MMC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	HARRY R. CARROLL/ MMC JACK J. BROWNSON/ ARC C. R. EDWARDS -DMS	DMS-DR-2423 JAN., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11,97,87- 289-1 / 97SWT - OA126A,B,C CR-160,506	RESULTS OF TESTS ON THE EFFECTS OF AEROELASTICITY O F THE SPACE SHUTT LE ORBITER VERTIC AL TAIL USING A O .03-SCALE MODEL (47-O) IN THE NASA AMES UNITARY WIN D TUNNELS (OA126A /B)	B62C9E64F9M16RSV8 W131N112FD3N28	DETERMINE THE EFF ECT OF AEROELASTI CITY OF THE ORBIT ER VERTICAL TAIL ON THE LATERAL DI RECTIONAL STABILI TY, RUDDER CONTRO L CHARACTERISTICS AND TAIL LOADS O F THE ORBITER	FORCE	0.6 - 2.5	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	S. R. HOULIHAN/RO CKWELL INTERNATIO NAL M. M. MANN -DMS	DMS-DR-2424 VOLUME 01 OCT., 1980
ARC - 11,97,87- 289-1 / 97SWT - OA126A,B,C CR-160,507	RESULTS OF TESTS ON THE EFFECTS OF AEROELASTICITY O F THE SPACE SHUTT LE ORBITER VERTIC AL TAIL USING A O .03-SCALE MODEL (47-O) IN THE NASA AMES UNITARY WIN D TUNNELS (OA126A /B)	B62C9E64F9M16RSV8 W131N112FD3N28	DETERMINE THE EFF ECT OF AEROELASTI CITY OF THE ORBIT ER VERTICAL TAIL ON THE LATERAL DI RECTIONAL STABILI TY, RUDDER CONTRO L CHARACTERISTICS AND TAIL LOADS O F THE ORBITER	FORCE	0.6 - 2.5	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	S. R. HOULIHAN/RO CKWELL INTERNATIO NAL M. M. MANN -DMS	DMS-DR-2424 VOLUME 02 OCT., 1980
ARC - 11,97,87- 289-1 / OA126A,B,C CR-160,508	RESULTS OF TESTS ON THE EFFECTS OF AEROELASTICITY O F THE SPACE SHUTT LE ORBITER VERTIC AL TAIL USING A O .03-SCALE MODEL (47-O) IN THE NASA AMES UNITARY WIN D TUNNELS (OA126A BC)	SSV 102 ORBITER C ONFIGURATION 47-O	DETERMINE EFFECT OF AEROELASTICITY OF ORBITER VERTI CAL TAIL ON LATER AL DIRECTIONAL ST ABILITY, RUDDER C ONTROL CHARACTERI STICS AND TAIL LO ADS OF THE ORBITE R VEHICLE. THREE TAILS (RIGID, PRE SSURE INSTRUMENTE D, AND ELASTIC) W ERE USED.	FORCE	0.03 / 0.6 - 3.5	ROCKWELL/ ARC - 11-FOOT, 9-FOO T, 8-FOOT, UNI TARY WIND TUNN EL	S. R. HOULIHAN/RO CKWELL W. ANDERSON/ARC D.W.HERSEY G. G. MCDONALD -DMS	DMS-DR-2424 VOLUME 03 OCT., 1980

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1207 LG2 / LA124 TM-X TP1186	A WIND TUNNEL STUDY OF THE APPLICABILITY OF FAR-FIELD SONIC-BOOM THEORY TO THE SPACE SHUTTLE ORBITER	140A/B ORBITER	TO DETERMINE APPLICABILITY OF FAR-FIELD SONIC-BOOM THEORY TO THE SPACE SHUTTLE ORBITER	FORCE	0.0004 / 2.8 - 4.14	LARC / LARC - UNITARY PLAN WIND TUNNEL	H. W. CARLSON + R. J. MACK/LARC J. W. BALL G. G. MCDONALD -DMS	DMS-DR-2426 JUNE, 1978
AEDC - HWTB - V41B-V2C / OH103B CR-167,675	RESULTS OF TESTS OF A 0.0175-SCALE THIN-SKIN THERMOCOUPLE WIND TUNNEL MODEL (60-0) OF THE SPACE SHUTTLE ORBITER TO DETERMINE EFFECTS OF SURFACE ROUGHNESS IN THE AEDC VKF HYPERSONIC WIND TUNNEL B (OH103B)	MODEL 60-0; LINES VL70-000140C	DETERMINE TURBULENT HEATING ON LOWER FUSELAGE AND WING SURFACE	HEAT-TRANS	0.0175 / 7.96 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.W. CUMMINGS/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2427 JAN., 1984
LERC - 10SWT - 045 / IH11 CR-160,523	WIND TUNNEL TESTS OF THE 0.035-SCALE INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS IN THE NASA/LEWIS 10 X 10-FOOT SUPERSONIC WIND TUNNEL (IH11)	84-OTS- .035 SCALE MODEL OF THE INTEGRATED SPACE SHUTTLE VEHICLE	TO OBTAIN PRESSURE DATA IN THE VICINITY OF PROTUBERANCES AND CONNECTING HARDWARE ON THE ORBITER, EXTERNAL TANK AND SOLID ROCKET BOOSTER IN ORDER TO DETERMINE AERODYNAMIC HEATING RATES IN THESE AREAS.	PRESSURE	.035 / 2.5 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	P.R. CARROL/RI, W. GERSTENMAIER/NASA S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2428 VOLUME 01 FEB., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LERC - 10SWT - 045 / IH11 CR-160,524	WIND TUNNEL TESTS OF THE 0.035-SCALE INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS IN THE NASA/LEWIS 10 X 10-FOOT SUPERSONIC WIND TUNNEL (IH11)	84-OTS- .035 SCALE MODEL OF THE INTEGRATED SPACE SHUTTLE VEHICLE	TO OBTAIN PRESSURE DATA IN THE VICINITY OF PROTUBERANCES AND CONNECTING HARDWARE ON THE ORBITER, EXTERNAL TANK AND SOLID ROCKET BOOSTER IN ORDER TO DETERMINE AERODYNAMIC HEATING RATES IN THESE AREAS.	PRESSURE	.035 / 2.5 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	P.R. CARROL/RI, W. GERSTENMAIER/NASA S. R. HOULIHAN G. W. KLUG--DMS	DMS-DR-2428 VOLUME 02 FEB., 1981
LERC - 10SWT - 045 / IH11 CR-160,525	WIND TUNNEL TESTS OF THE 0.035-SCALE INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS IN THE NASA/LEWIS 10 X 10-FOOT SUPERSONIC WIND TUNNEL (IH11)	84-OTS- .035 SCALE MODEL OF THE INTEGRATED SPACE SHUTTLE VEHICLE	TO OBTAIN PRESSURE DATA IN THE VICINITY OF PROTUBERANCES AND CONNECTING HARDWARE ON THE ORBITER, EXTERNAL TANK AND SOLID ROCKET BOOSTER IN ORDER TO DETERMINE AERODYNAMIC HEATING RATES IN THESE AREAS.	PRESSURE	.035 / 2.5 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	P.R. CARROL/RI, W. GERSTENMAIER/NASA S. R. HOULIHAN G. W. KLUG--DMS	DMS-DR-2428 VOLUME 03 FEB., 1981
LERC - 10SWT - 045 / IH11 CR-160,526	WIND TUNNEL TESTS OF THE 0.035-SCALE INTEGRATED SPACE SHUTTLE VEHICLE 84-OTS IN THE NASA/LEWIS 10 X 10-FOOT SUPERSONIC WIND TUNNEL (IH11)	84-OTS- .035 SCALE MODEL OF THE INTEGRATED SPACE SHUTTLE VEHICLE	TO OBTAIN PRESSURE DATA IN THE VICINITY OF PROTUBERANCES AND CONNECTING HARDWARE ON THE ORBITER, EXTERNAL TANK AND SOLID ROCKET BOOSTER IN ORDER TO DETERMINE AERODYNAMIC HEATING RATES IN THESE AREAS.	PRESSURE	.035 / 2.5 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	P.R. CARROL/RI, W. GERSTENMAIER/NASA S. R. HOULIHAN G. W. KLUG--DMS	DMS-DR-2428 VOLUME 04 FEB., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	THIN SKIN HEAT TR	OT FLAT PLATE	THE PURPOSE OF TH	HEAT-TRANS	0.04 /	ROCKWELL/	J.W. CUMMINGS /RI	DMS-DR-2429
3.5HWT -	ANSFER TESTS OF A	580TS	IS TEST WAS TO OB		5.3 -	ARC -	A.F. OKUNO /ARC	APRIL, 1982
239 /	SIMULATED SPACE		TAIN AERODYNAMIC		5.3	3.5-FOOT HYPER	S. R. HOULIHAN	
IH51B	SHUTTLE 0.04 SCAL		INTERFERENCE HEAT			SONIC WIND TUN	G. W. KLUG	
CR-167,353	E SOLID ROCKET BO		ING DATA ON THE E			NEL	-DMS	
	OSTER/ET MODEL (5		T AND SRB IN THE					
	8-TS) IN THE NASA		PROXIMITY OF THE					
	/ARC 3.5 FOOT HYP		FORWARD ET/SRB AT					
	ERSONIC WIND TUNN		TACHMENT AND ON T					
	EL (IH51B)		HE ATTACH STRUCTU					
			RE					
LARC -	RESULTS OF AN INV	OV102(MODEL 39-0)	VERIFICATION OF L	FORCE	0.6 -	ROCKWELL/	R.H.MULFINGER/RI	DMS-DR-2430
16TT -	ESTIGATION TO VER		ONGITUDINAL AND L		1.3	LARC -	S. R. HOULIHAN	VOLUME 01
326 /	IFY SHUTTLE ORBIT		ATERAL/DIRECTIONA			16-FOOT TRANSO	M. M. MANN	MARCH, 1981
OA270A	ER AERO-CHARACTER		L FORCE AND			NIC TUNNEL	-DMS	
CR-160,817	ISTICS AND EXAMIN		MOMENT CHARACTERI					
	E TRANSONIC BLOCK		STICS, CONTROL SU					
	AGE AND SHOCK REF		RFACE EFFECTIVENE					
	LECTION EFFECTS		SS AND HINGE					
	UTILIZING AN .05-		MOMENTS AND EXAMI					
	SCALE HI-FIDELITY		NE THE EFFECT OF					
	REMOTE CONTROL M		TUNNEL BLOCKAGE A					
	ODEL(39-0) IN THE		ND SHOCK REFLECT-					
	LANGLEY RESEARCH		IONS ON THESE CHA					
	CENTER 16-FT. TRA		RACTERISTICS					
	NSONIC WIND TUNNE							
	L OA270A							

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC-16TT-326/OA270A CR-160,818	RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE AND SHOCK REFLECTION EFFECTS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL(39-0) IN THE LANGLEY RESEARCH CENTER 16-FT. TRANSONIC WIND TUNNEL OA270A	OV102(MODEL 39-0)	VERIFICATION OF LONGITUDINAL AND LATERAL/DIRECTIONAL FORCE AND MOMENT CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS AND HINGE MOMENTS AND EXAMINE THE EFFECT OF TUNNEL BLOCKAGE AND SHOCK REFLECTIONS ON THESE CHARACTERISTICS	FORCE	0.6 - 1.3	ROCKWELL/LARC - 16-FOOT TRANSONIC TUNNEL	R.H.MULFINGER/RI S. R. HOULIHAN M. M. MANN -DMS	DMS-DR-2430 VOLUME 02 MARCH, 1981
LARC-16TT-326/OA270A CR-160,819	RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE AND SHOCK REFLECTION EFFECTS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL(39-0) IN THE LANGLEY RESEARCH CENTER 16-FT. TRANSONIC WIND TUNNEL OA270A	OV102(MODEL 39-0)	VERIFICATION OF LONGITUDINAL AND LATERAL/DIRECTIONAL FORCE AND MOMENT CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS AND HINGE MOMENTS AND EXAMINE THE EFFECT OF TUNNEL BLOCKAGE AND SHOCK REFLECTIONS ON THESE CHARACTERISTICS	FORCE	0.6 - 1.3	ROCKWELL/LARC - 16-FOOT TRANSONIC TUNNEL	R.H.MULFINGER/RI S. R. HOULIHAN M. M. MANN -DMS	DMS-DR-2430 VOLUME 03 MARCH, 1981

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 01
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	APRIL, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,793	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 02
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	APRIL, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,794	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 03
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	APRIL, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,795	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 04
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	APRIL, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,796	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 05
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	MAY, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,797	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					
AEDC -	TEST RESULTS FROM	OTS-T38S26B62C12M	TO OBTAIN CONVECT	HEAT-TRANS	0.0175 /	ROCKWELL/	J.W.CUMMINGS/RI	DMS-DR-2431
SWTA -	THE NASA/ROCKELL	16W116E52V8R18F10	IVE HEAT-TRANSFER		3.01 -	AEDC -	K.W.NUTT/AEDC-VKF	VOLUME 06
V41A-W5 /	INTERNATIONAL SP	OT-T38B62C12M16W1	-RATE DISTRIBUTIO		4.02	SUPERSONIC WIN	/SH	MAY, 1980
IH85	ACE SHUTTLE INTEG	16E52V8R18F10	NS ON THE SPACE S			D TUNNEL (A)	J. E. VAUGHN	
CR-151,798	RATED VEHICLE TES		HUTTLE INTEGRATED				G. W. KLUG	
	T USING A 0.0175-		VEHICLE DURING S				-DMS	
	SCALE MODEL (60-0		IMULATED FIRST AN					
	TS) CONDUCTED IN		D SECOND STAGE CO					
	THE AEDC-VKF TUNN		NDITIONS OF THE F					
	EL A (IH85)		LIGHT PROFILE					

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AEDC - SWTA - V41A-W5 / IH85 CR-151,799	TEST RESULTS FROM THE NASA/ROCKELL INTERNATIONAL SP ACE SHUTTLE INTEG RATED VEHICLE TES T USING A 0.0175- SCALE MODEL (60-O TS) CONDUCTED IN THE AEDC-VKF TUNN EL A (IH85)	OTS-T38S26B62C12M 16W116E52V8R18F10 OT-T38B62C12M16W1 16E52V8R18F10	TO OBTAIN CONVECT IVE HEAT-TRANSFER -RATE DISTRIBUTIO NS ON THE SPACE S HUTTLE INTEGRATED VEHICLE DURING S IMULATED FIRST AN D SECOND STAGE CO NDITIONS OF THE F LIGHT PROFILE	HEAT-TRANS	0.0175 / 3.01 - 4.02	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J.W.CUMMINGS/RI K.W.NUTT/AEDC-VKF /SH J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2431 VOLUME 07 MAY, 1980
AEDC - SWTA - V41A-W5 / IH85 CR-151,800	TEST RESULTS FROM THE NASA/ROCKELL INTERNATIONAL SP ACE SHUTTLE INTEG RATED VEHICLE TES T USING A 0.0175- SCALE MODEL (60-O TS) CONDUCTED IN THE AEDC-VKF TUNN EL A (IH85)	OTS-T38S26B62C12M 16W116E52V8R18F10 OT-T38B62C12M16W1 16E52V8R18F10	TO OBTAIN CONVECT IVE HEAT-TRANSFER -RATE DISTRIBUTIO NS ON THE SPACE S HUTTLE INTEGRATED VEHICLE DURING S IMULATED FIRST AN D SECOND STAGE CO NDITIONS OF THE F LIGHT PROFILE	HEAT-TRANS	0.0175 / 3.01 - 4.02	ROCKWELL/ AEDC - SUPERSONIC WIN D TUNNEL (A)	J.W.CUMMINGS/RI K.W.NUTT/AEDC-VKF /SH J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2431 VOLUME 08 APRIL, 1980
LARC - UPWT - 1243 / LA125 CR-160,845	INVESTIGATION OF LONGITUDINAL AND LATERAL-DIRECTION AL AERODYNAMIC CH ARACTERISTICS FOR A 2 PERCENT (MOD EL 105-0) SPACE S HUTTLE ORBITER (V EHICLE 102) IN TH E LARC UPWT AT MA CH NUMBERS FROM 2 .5 TO 4.5 (LA125)	OV102 (105-0)	TO OBTAIN LATERAL -DIRECTIONAL AERO DYNAMIC CHARACTER ISTICS OF THE ORB ITER OVER THE MAC H RANGE 2.5 TO 4. 5.	FORCE	0.02/	LARC / LARC - UNITARY PLAN W IND TUNNEL	W.PELHAM PHILLIPS /NASA-LARC J. W. BALL G. W. KLUG -DMS	DMS-DR-2432 OCT., 1981

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NSWC - 1310 / OA171 CR-151,764	RESULTS OF TESTS USING A 0.020-SCALE MODEL (105-0) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE NAVAL SURFACE WEAPONS CENTER HYPERVELOCITY TUNNEL 9 (OA171)	0.02 SCALE ORBITER VEHICLE 102 (MODEL 105-0), MODIFIED MODEL 89-0	OBTAIN FORCE AND MOMENT DATA AT FULL SCALE FLIGHT TRAJECTORY REYNOLDS NUMBER AT A MACH NUMBER OF 14 AND TO EXPAND THE CURRENT DATA BASE ABOVE MACH 10 BUT BELOW THE FLIGHT CONDITIONS WHERE ONSET OF VISCOUS INTERACIONS OCCURS.	FORCE	13.1 - 13.5	ROCKWELL/ NSWC -	J. J. DAILEDA/ROCKWELL INTERNATIONAL W. C. WOODS, G. C. ASHBY, JR./LARC D.W.HERSEY G. G. MCDONALD -DMS	DMS-DR-2433 OCT., 1978
AEDC - PWT16T - 507 / OA129 CR-151,782	RESULTS OF TESTS ON THE EFFECTS OF AEROELASTICITY OF THE SPACE SHUTTLE ORBITER VERTICAL TAIL USING A 0.03-SCALE MODEL (47-0) IN THE AEDC-16T PROPULSION WIND TUNNEL (OA129)	ORBITER (47.0) OV102 WITH RIGID AND FLEXIBLE TAIL	TO DETERMINE AEROELASTIC EFFECTS OF THE ORBITER VERTICAL TAIL ON THE LATERAL-DIRECTIONAL STABILITY, RUDDER CONTROL CHARACTERISTICS AND VERTICAL TAIL LOADS.	FORCE	0.03/ 0.8 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	R.S.SPANGLER/RI S.R.HOULIHAN/RI D.W.HERSEY G. W. KLUG -DMS	DMS-DR-2434 DEC., 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LERC - 10SWT - 041 / IH39 CR-151,415	BASE PRESSURE AND HEAT TRANSFER TESTS OF THE 0.0225-SCALE SPACE SHUTTLE PLUME SIMULATION MODEL (19-OTS) IN THE NASA-LEWIS RESEARCH CENTER 10X10-FOOT SUPERSONIC WIND TUNNEL (TEST IH39)	INTEGRATED VEHICLE CONFIGURATION 5	TO MEASURE HEAT TRANSFER + PRESSURE DISTRIBUTIONS ABOUT THE ORBITER, ET,+ SRB AFTBODY SURFACES DUE TO ROCKET PLUME RECIRCULATION; THE SAME ALONG SIDE WALLS DUE TO ROCKET-PLUME-INDUCED SEPARATION; + TO DETERMINE GAS RECOVERY TEMPERATURES.	PRESSURE	0.0225 / 2.0 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	J.W.FOUST/RI D.W.HERSEY G. G. MCDONALD -DMS	DMS-DR-2435 OCT., 1978
LA126 TM-X 72661	SPACE SHUTTLE ORBITER TRIMMED CENTER OF GRAVITY EXTENSION STUDY VOLUME VI--SYSTEM DESIGN STUDIES					LARC /	J. W. BALL -DMS	DMS-DR-2436 VOLUME 06 AUGUST, 1978
MSFC - 14TWT - 652 / FA25 CR-151,766	RESULTS OF TRANSONIC TESTS IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE LAUNCH VEHICLE (FA25)	MODEL 74-OTS MODEL 74-OTS WITH ORB. MOLD LINE CHANGES ON WING AND NOSE MODEL 74-OTS WITH ORB. MOLD LINE CHANGES ON WING	DETERMINE AERODYNAMIC INCREMENTS DUE TO ATTACH STRUCTURE; ORBITER MOLD LINE CHANGES; WIRE BUNDLE FAIRINGS; FLOW ANGULARITY	FORCE	0.60 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	THOMAS E. LUNDY/LMSC J. L. GLYNN J. E. VAUGHN -DMS	DMS-DR-2437 FEB., 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 246-1 / IA138 CR-160,855	RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE ORBITER AND SOLID ROCKET BOOSTER JET PLUME INDUCED EFFECTS UTILIZING A .01-SCALE INTEGRATED VEHICLE SPACE SHUTTLE MODEL (75-OTS) IN THE NASA/ARC 9X7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL	PROPOSED VEHICLE 5	TO OBTAIN PRESSURE COEFFICIENT INCREMENTS DUE TO PLUME EFFECTS ON THE ORBITER, EXTERNAL TANK, AND SRB, AND TO OBTAIN WING LOADS AND ELEVON HINGE MOMENTS	FORCE PRESSURE	0.01 / 1.55 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J. MARROQUIN/RI D.W.HERSEY R. H. LINDAHL -DMS	DMS-DR-2438 VOLUME 01 FEB., 1982
ARC - 97SWT - 246-1 / IA138 CR-160,856	RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE ORBITER AND SOLID ROCKET BOOSTER JET PLUME INDUCED EFFECTS UTILIZING A .01-SCALE INTEGRATED VEHICLE SPACE SHUTTLE MODEL (75-OTS) IN THE NASA/ARC 9X7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL	PROPOSED VEHICLE 5	TO OBTAIN PRESSURE COEFFICIENT INCREMENTS DUE TO PLUME EFFECTS ON THE ORBITER, EXTERNAL TANK, AND SRB, AND TO OBTAIN WING LOADS AND ELEVON HINGE MOMENTS	FORCE PRESSURE	0.01 / 1.55 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J. MARROQUIN/RI D.W.HERSEY R. H. LINDAHL -DMS	DMS-DR-2438 VOLUME 02 FEB., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 246-1 / IA138 CR-160,857	RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE ORBITER AND SOLID ROCKET BOOSTER JET PLUME INDUCED EFFECTS UTILIZING A .01-SCALE INTEGRATED VEHICLE SPACE SHUTTLE MODEL (75-OTS) IN THE NASA/ARC 9X7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL	PROPOSED VEHICLE 5	TO OBTAIN PRESSURE COEFFICIENT INCREMENTS DUE TO PLUME EFFECTS ON THE ORBITER, EXTERNAL TANK, AND SRB, AND TO OBTAIN WING LOADS AND ELEVON HINGE MOMENTS	FORCE PRESSURE	0.01 / 1.55 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J. MARROQUIN/RI D.W.HERSEY R. H. LINDAHL -DMS	DMS-DR-2438 VOLUME 03 FEB., 1982
AEDC - PWT16T - 517 / IA182 CR-167,673	RESULTS OF TESTS USING A 0.03-SCALE MODEL (47-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE AEDC 16-FOOT TRANSONIC PROPULSION WIND TUNNEL (IA182)	MODEL 47-OTS	TO OBTAIN ORBITER FORCE AND MOMENT DATA, WING LOAD INDICATOR DATA, ELEVON HINGE MOMENTS, AND TO INVESTIGATE FLOW ANGULARITY CORRECTIONS TO APPLY TO THE IA105A DATA	FORCE	0.03 / 0.6- 1.55	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	R. H. SPANGLER/RI L. P. LEBLANC/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2439 NOV., 1983

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST.	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LERC - 10SWT - 044 / IH83 CR-151,765	BASE PRESSURE AND HEAT TRANSFER TESTS OF THE 0.0225-SCALE SPACE SHUTTLE PLUME SIMULATION MODEL (19-OTS) IN YAWED FLIGHT CONDITIONS IN THE NASA-LEWIS 10X10-FOOT SUPERSONIC WIND TUNNEL	SPACE SHUTTLE PLUME SIMULATION (MODEL 19-OTS)	TO MEASURE HEAT TRANSFER + PRESSURE DISTRIBUTIONS ABOUT THE ORBITER, EXTERNAL TANK (ET), + SOLID ROCKET BOOSTER (SRB) AFTERBODY SURFACES DUE TO ROCKET PLUME RECIRCULATION + IMPINGEMENT, + TO DERIVE GAS RECOVERY TEMP. IN THE BASE REGION USING GAS TEMP. PROBE MEASUREMENTS.	PRESSURE HEAT-TRANS	0.0225 / 2.2 - 3.5	ROCKWELL/ LERC - 10 BY 10-FOOT SUPERSONIC WIND TUNNEL	J.W.FOUST/RI M.QUAN/RI D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2440 FEB., 1979
JSC - 61-A-78 / OH79 CR-151,769	PRESSURE AND HEAT TRANSFER TESTS OF THE 0.040-SCALE SPACE SHUTTLE ORBITER BASE HEATING MODEL (65-O) IN THE JSC THERMAL VACUUM CHAMBER A.	65-O SS ORBITER BASE HEATING MODEL	TO MEASURE BASE PRESSURE + HEAT TRANSFER RATES ON A SCALED MODEL OF THE SPACE SHUTTLE ORBITER BASE REGION WITH FIRING ROCKET ENGINES, SSME, DUPLICATING THE PLUME FLOW FIELD TO SIMULATE RECIRCULATION + IMPINGEMENT IN A NEAR-VACUUM ENVIRONMENT.	PRESSURE HEAT-TRANS	0.040 /	ROCKWELL/ JSC -	J.W. FOUST, P.L. LEMOINE/RI, A.L. BRANSCOMB/JSC D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2443 JUNE, 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF TESTS	B75C16E64F16FR22H	TO OBTAIN FORCE A	PRESSURE	0.2 -	ROCKWELL/	J. J. DAILEDA/ROC	DMS-DR-2444
PWT16T -	USING A 0.02-SCAL	G1M52N108N109N110	ND MOMENT DATA ON		1.6	AEDC -	KWELL INTERNATION	VOLUME 01
519 /	E MODEL (89-OTS)	N111R20U1V27VT10V	ALL VEHICLE ELEM			TRANSONIC PROP	AL	APRIL, 1981
IA183	OF THE SPACE SHUT	T11VT12VT13VT14	ENTS(ORBITER,EXTE			ULSION WIND TU	D.W.HERSEY	
CR-160,488	TLE INTEGRATED VE	VT15VT16VT17W131T	RNAL TANK, AND EA			NNEL (PWT-16T)	M. M. MANN	
	HICLE IN THE AEDC	39S27	CH SOLID ROCKET B				-DMS	
	16-FOOT TRANSONI		OOSTER), WING AND					
	C PROPULSION WIND		VERTICAL TAIL					
	TUNNEL (IA183)		LOAD INDICATORS,					
			ELEVON HINGE MOME					
			NTS, AND BASE-BOD					
			YFLAP PRESSURE DA					
			TA FOR VERIFICATI					
			ON OF TEST IA156A					
			DATA					
AEDC -	RESULTS OF TESTS	B75C16E64F16FR22H	TO OBTAIN FORCE A	PRESSURE	0.2 -	ROCKWELL/	J. J. DAILEDA/ROC	DMS-DR-2444
PWT16T -	USING A 0.02-SCAL	G1M52N108N109N110	ND MOMENT DATA ON		1.6	AEDC -	KWELL INTERNATION	VOLUME 02
519 /	E MODEL (89-OTS)	N111R20U1V27VT10V	ALL VEHICLE ELEM			TRANSONIC PROP	AL	APRIL, 1981
IA183	OF THE SPACE SHUT	T11VT12VT13VT14	ENTS(ORBITER,EXTE			ULSION WIND TU	D.W.HERSEY	
CR-160,489	TLE INTEGRATED VE	VT15VT16VT17W131T	RNAL TANK, AND EA			NNEL (PWT-16T)	M. M. MANN	
	HICLE IN THE AEDC	39S27	CH SOLID ROCKET B				-DMS	
	16-FOOT TRANSONI		OOSTER), WING AND					
	C PROPULSION WIND		VERTICAL TAIL					
	TUNNEL (IA183)		LOAD INDICATORS,					
			ELEVON HINGE MOME					
			NTS, AND BASE-BOD					
			YFLAP PRESSURE DA					
			TA FOR VERIFICATI					
			ON OF TEST IA156A					
			DATA					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 87SWT - 318-1 / OA146 CR-167,652	RESULTS OF A WIND TUNNEL PRESSURE LOADS TEST OF THE 0.03-SCALE SPACE SHUTTLE ORBITER (MODEL 47-O) IN THE 8X7-FOOT LEG OF THE NASA/ARC UNITARY PLAN WIND TUNNEL (OA146)	SSV 14DA/B/C/R ORBITER	TO OBTAIN OV-102 DISTRIBUTED PRESSURES, VEHICLE FORCES AND MOMENTS, ELEVON HINGE MOMENTS, AND WING LOADS IN THE HYPERSONIC FLOW REGION FOR RETURN TO LAUNCH SITE (RTLS) ABORT	FORCE PRESSURE	3.5 - 3.5	ROCKWELL/ ARC 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	A. J. RITSCHEL/RI I. M. WEINBERG/RI S. R. HOULIHAN J. E. VAUGHN -DMS	DMS-DR-2445 VOLUME 01 JUNE, 1983
ARC - 87SWT - 318-1 / OA146 CR-167,653	RESULTS OF A WIND TUNNEL PRESSURE LOADS TEST OF THE 0.03-SCALE SPACE SHUTTLE ORBITER (MODEL 47-O) IN THE 8X7-FOOT LEG OF THE NASA/ARC UNITARY PLAN WIND TUNNEL (OA146)	SSV 14DA/B/C/R ORBITER	TO OBTAIN OV-102 DISTRIBUTED PRESSURES, VEHICLE FORCES AND MOMENTS, ELEVON HINGE MOMENTS, AND WING LOADS IN THE HYPERSONIC FLOW REGION FOR RETURN TO LAUNCH SITE (RTLS) ABORT	FORCE PRESSURE	3.5 - 3.5	ROCKWELL/ ARC 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	A. J. RITSCHEL/RI I. M. WEINBERG/RI S. R. HOULIHAN J. E. VAUGHN -DMS	DMS-DR-2445 VOLUME 02 JUNE, 1983
ARC - 3.5HWT - 241 / IH51C CR-160,519	SPACE SHUTTLE THIN SKIN HEAT TRANSFER TESTS OF SIMULATED LARGE SCALE PROTUBERANCES AND HALF SCALE TILE ON FLAT PLATE MODEL 58-OTS IN THE NASA AMES RESEARCH CENTER 3.5-FT HYPERSONIC WIND TUNNEL (IH51C)		DETERMINE AEROHEATING AROUND PROTUBERANCES AND INVESTIGATE TPS TILE HEATING RATES USING A HALF-SCALE TILE ARRAY	PRESSURE	LARGE / 5.3 - 5.3	ROCKWELL/ ARC 3.5-FOOT HYPERSONIC WIND TUNNEL	J. W. FOUST/RI D W.HERSEY J. E. VAUGHN -DMS	DMS-DR-2448 VOLUME 01 OCT., 1980

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 3.5HWT - 241 / IH51C CR-160,520	SPACE SHUTTLE THIN SKIN HEAT TRANSFER TESTS OF SIMULATED LARGE SCALE PROTUBERANCES AND HALF SCALE TILE ON FLAT PLATE MODEL 58-OTS IN THE NASA AMES RESEARCH CENTER 3.5-FT HYPERSONIC WIND TUNNEL (IH51C)		DETERMINE AEROHEATING AROUND PROTUBERANCES AND INVESTIGATE TPS TILE HEATING RATES USING A HALF-SCALE TILE ARRAY	PRESSURE	LARGE / 5.3 - 5.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	J. W. FOUST/RI D.W.HERSEY J. E. VAUGHN -DMS	DMS-DR-2448 VOLUME 02 OCT., 1980
AEDC PWT16T - 505 / IA132 CR-160,497	RESULTS OF SHUTTLE TRANSPORTATION SYSTEM ASCENT AIR DATA SYSTEM CALIBRATION TEST USING THE 0.07-SCALE EXTERNAL TANK FOREBODY MODEL (68-T) IN THE AEDC PWT 16-FOOT TRANSONIC WIND TUNNEL (IA132)	EXTENAL OXYGEN HYDROGEN TANK FOREBODY MODEL	OBTAIN A TRANSONIC CALIBRATION OF THE ASCENT AIR DATA SYSTEM (AADS); INVESTIGATE AN ALTERNATE AADS; PERFORM LIMITED TUNNEL FLOW SURVEY	FORCE	0.4 - 1.55	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	R.R.BURROWS/R.I. C.J.SPURLIN/AEDC D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2449 FEB., 1981
ARC 22TWT - 041,154,1/6 / OS4A OS4B OS12 CR-151,774	EXPERIMENTAL RESULTS OF TESTS TO DETERMINE THE EFFECTS OF ORBITER THERMAL PROTECTION SUBSYSTEM (TPS) TILES ON PANEL FLUTTER CONDUCTED IN THE ARC 2X2 TWT.		TO VERIFY FLUTTER PREDICTIONS MADE FOR PANELS WITH AND WITHOUT THERMAL PROTECTION MATERIAL	PRESSURE	1.05 - 1.1	ROCKWELL/ ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TUNNEL	R.B.KINGSLAND, M.A.KOTCH/ROCKWELL D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2450 MAY, 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - P4A / OH90A/MA29 CR-151,772	RESULTS OF BOUNDARY LAYER TRANSITION TESTS OF THE 0.025-SCALE RIGHT-HAND WING AND TRUNCATED AFT FUSELAGE MODEL (94-0) IN THE AEDC HWTB.			HEAT-TRANS		ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2451 MAY, 1979
ARC - 3.5HWT - 230 / IH99 CR-167,383	RESULTS OF HEAT TRANSFER TESTS ON THE SPACE SHUTTLE FORWARD SRB SECTION AT ASCENT CONDITIONS USING THE 0.10-SCALE MODEL 98-S IN THE NASA/AMES 3.5-FOOT HWT (IH99)	SSV SRB NOSE	TO DETERMINE THE HEAT TRANSFER RATES ON THE SPACE SHUTTLE SRB NOSE CONE IN THE VICINITY OF THE FORWARD SEPARATION MOTORS AND AROUND SIMULATED RIVET HEADS	HEAT-TRANS	0.10 / 5.3-7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. QUAN/ROCKWELL C.L. BERTHOLD/ROCKWELL D.W.HERSEY G. R. LUTZ DMS	DMS-DR-2452 SEPT., 1982
CALSPAN - LT - I95-100 / IH75 CR-151,776	BASE PRESSURE AND HEAT TRANSFER TESTS OF THE 0.0225-SCALE SPACE SHUTTLE PLUME SIMULATION MODEL (19-OTS) IN THE NASA/CALSPAN LUDWIEG TUBE WIND TUNNEL	19-OTS-B64,C16,E63,F14,M18,N92,N94,V23,W129,S22,N106,T33	TO MEASURE HEATING RATES AND PRESSURES AND TO DETERMINE GAS RECOVERY TEMPERATURES IN THE BASE REGIONS OF A SCALED MODEL OF THE SPACE SHUTTLE VEHICLE WITH ORBITER + SRB FIRING ROCKET ENGINES SIMULATING PLUME RECIRCULATION + IMPINGEMENT IN AN ALTITUDE ENVIRONMENT.	HEAT-TRANS PRESSURE	0.0225 / 3.5 - 4.5	ROCKWELL/ CALSPAN - LUDWIEG TUBE	C.E. WITTLIFF/CALSPAN D.W.HERSEY G. R. LUTZ -DMS	DMS-DR-2453 JUNE, 1979

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CFHT - 114 / LA57 TM-X 72661	IMPACT OF RETROFITS FOR CENTER-OF-GRAVITY EXTENSION ON ORBITER THERMAL PROTECTION SYSTEM	140A/B ORBITER-BASELINE 140A/B ORBITER WITH S-2 FILLET 140A/B ORBITER WITH C-4 CANARD	TO DISCOVER IF THE RETROFIT MODIFICATIONS, DEVELOPED TO INCREASE THE ALLOWABLE C.G. RANGE OF THE ORBITER, WOULD ADVERSELY AFFECT THE TPS ON THE ORBITER. RESULTS SHOWED NO SIGNIFICANT PROBLEMS	HEAT-TRANS	0.01 / 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	J. C. DUNAVANT/LARC J. W. BALL G. R. LUTZ -DMS	DMS-DR-2454 VOLUME 03 APRIL, 1979
AEDC - HWTB - 41B-65 / OH102A CR-151,778	RESULTS OF FLOW ANGULARITY TESTS ON A 0.0175-SCALE SPACE SHUTTLE ORBITER MODEL (56-0) ON THE AEDC VKF B HYPERSONIC WIND TUNNEL (OH102A)	140C ORBITER WITH SLAB SIDED VERTICAL TAIL	TO DETERMINE THE FLOW DIRECTION AT THE SILTS LOCATION OF THE ORBITER VERTICAL TAIL LEADING EDGE	HEAT-TRANS	0.0175 / 8.0 -	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	W.F. BRADDOCK/RI J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2455 JUNE, 1979
ARC - 97SWT - 347-1 / IA184 CR-160,486	RESULTS OF TESTS USING A 0.03-SCALE MODEL (47-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA/AMES RESEARCH CENTER 9X7 FOOT SUPERSONIC WIND TUNNEL (IA184)	0.03-SCALE SHUTTLE INTEGRATED VEHICLE 47-OTS	DISTRIBUTED CP ON ELEMENTS + COMPONENTS AFFECTED BY ELEVON, WING LOAD DATA, ORB. F+M DATA, ELEVON HINGE MOMENTS, FOUR COMPONENT VT FORCE DATA, SECONDARY-CP DATA ON SIMULATED AADS PROBE MOUNTED IN NOSE OF THE ET	FORCE PRESSURE	0.03 / 1.55 - 2.50	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R.H. SPANGLER, J.J. DAILEDA/RI D.W.HERSEY J. L. GLYNN -DMS	DMS-DR-2456 VOLUME 01 SEPT., 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 347-1 / IA184 CR-160,487	RESULTS OF TESTS USING A 0.03-SCALE MODEL (47-OTS) OF THE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA/AMES RESEARCH CENTER 9X7 FOOT SUPERSONIC WIND TUNNEL (IA184)	0.03-SCALE SHUTTLE INTEGRATED VEHICLE 47-OTS	DISTRIBUTED CP ON ELEMENTS + COMPONENTS AFFECTED BY ELEVON, WING LOAD DATA, ORB. F+M DATA, ELEVON HINGE MOMENTS, FOUR COMPONENT VT FORCE DATA, SECONDARY-CP DATA ON SIMULATED AADS PROBE MOUNTED IN NOSE OF THE ET	FORCE PRESSURE	0.03 / 1.55 - 2.50	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R.H. SPANGLER, J. DAILEDA/RI D.W.HERSEY J. L. GLYNN -DMS	DMS-DR-2456 VOLUME 02 SEPT., 1980
LARC - UPWT - 1267 / IA180 CR-160,813	RESULTS OF SHUTTLE TRANSPORTATION SYSTEM ASCENT AIR DATA SYSTEM HIGH SUPERSONIC CALIBRATION TEST USING THE 0.07-SCALE EXTERNAL OXYGEN HYDROGEN TANK FOREBODY MODEL (68-T) IN THE UNITARY PLAN HIGH SPEED LEG OF THE LARC 4X4 WIND TUNNEL (IA180)	EXTERNAL OXYGEN HYDROGEN TANK FOREBODY MODEL	OBTAIN A HIGH SUPERSONIC ASCENT AIR DATA SYSTEM (AADS) CALIBRATION; OBTAIN SHOCK DETACHMENT DIAGNOSTIC INFORMATION	FORCE	3.5 - 4.63	ROCKWELL/ LARC - UNITARY PLAN WIND TUNNEL	R.R.BURROWS/R.I. W.CORLETTE/LARC D.W.HERSEY W. B. MEINDERS -DMS	DMS-DR-2457 MARCH, 1981
ARC - 11TWT - 369-1 / 97SWT - OS36/37 CR-167,668	SPACE SHUTTLE HRSI TILE TESTS OS36 AND OS37 IN THE NASA/AMES RESEARCH CENTER 11X11-FOOT AND 9X7-FOOT WIND TUNNELS USING TEST FIXTURES 96-0 AND 81-0 (OS36/37)	HRSI TILE PANEL CALIBRATION PANEL	TO DETERMINE DYNAMIC RESPONSE AND FAILURE CHARACTERISTICS INDUCED IN HRSI TILES DUE TO COMBINED AERODYNAMIC AND STRUCTURAL VIBRATION LOADINGS	PRESSURE	0.61- 2.50	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	C. L. STEVENS, R. B. KINGSLAND/RI S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2458 NOV., 1983

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	SPACE SHUTTLE TES	MODEL 58-0	TO INVESTIGATE TH	HEAT-TRANS	0.50 /	ROCKWELL/	P. L. LEMOINE/RI	DMS-DR-2461
3.5HWT -	TS OF TURBULENT B		ERMAL PROTECTION		7.0	ARC -	A. F. OKUNO/RI	MARCH, 1984
244 /	OUNDARY LAYER HEA		SYSTEM (TPS) TILE			3.5-FOOT HYPER	S. R. HOULIHAN	
IH51D	TING EFFECTS ON H		HEATING RATES US			SONIC WIND TUN	G. W. KLUG	
CR-167,677	ALF-SCALE TILE SI		ING A HALF-SCALE			NEL	-DMS	
	MULATION USING MO		TILE ARRAY WITH P					
	DEL 58-0 IN THE N		ROVISIONS TO VARY					
	ASA/ARC 3.5-FOOT		TILE GAP, STEP H					
	HYPERSONIC WIND T		EIGHT, EDGE RADII					
	UNNEL (IH51D)		AND FLOW ORIENTA					
			TION					
ARC -	RESULTS OF SUPERS	ET FOREBODY (T41)	THE TEST OBJECTIV	FORCE	0.07,	ROCKWELL/	J. GAWIENOWSKI, J	DMS-DR-2462
97SWT -	ONIC ASCENT AIR D	- LOUVERS OPEN, C	E WAS TO OBTAIN A		0.36/	ARC -	. BROWNSON /ARC	VOLUME 01
283-1 /	ATA SYSTEM CALIBR	T FAIRING AND GO2	SUPERSONIC CALIB		1.55 -	9-FOOT BY 7-FO	R.R. BURROWS, W.R	MARCH, 1983
87SWT -	ATION TESTS IA131	LINE INSTALLED	RATION OF THE ASC		3.5	OT SUPERSONIC	. CARLSON /RI	
IA131B/C	B/C USING THE 0.0	ET FOREBODY (T41)	ENT AIR DATA SYST			WIND TUNNEL (U	S. R. HOULIHAN	
CR-167,370	7-SCALE EXTERNAL	- LOUVERS OPEN, C	EMS (AADS) THROUG			NITARY)	G. W. KLUG	
	TANK FOREBODY MOD	T,FAIRING, AND GO	H THE MACH RANGE			8-FOOT BY 7-FO	-DMS	
	EL 68-T IN THE AR	2 LINE REMOVED	OF 1.55 THROUGH 3			OT SUPERSONIC		
	C 9X7 AND 8X7 LEG	ET FOREBODY (T41)	.5.			WIND TUNNEL (U		
	S OF THE AMES UNI	- LOUVERS FILLED.				NITARY)		
	TARY PLAN WIND TU	CT, FAIRING AND						
	NNEL	GO2 LINE REMOVED						
		ROSEMONT STATIC P						
		ROBE (PR12) + 0.3						
		6 SCALE FTP (PR4)						
		-T41 OUT OF TUNN.						

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 283-1 / 87SWT - IA131B/C CR-167,371	RESULTS OF SUPERS ONIC ASCENT AIR D ATA SYSTEM CALIBR ATION TESTS IA131 B/C USING THE O.O 7-SCALE EXTERNAL TANK FOREBODY MOD EL 68-T IN THE AR C 9X7 AND 8X7 LEG S OF THE AMES UNI TARY PLAN WIND TU NNEL	ET FOREBODY (T41) - LOUVERS OPEN. C T FAIRING AND GO2 LINE INSTALLED ET FOREBODY (T41) - LOUVERS OPEN. C T.FAIRING. AND GO 2 LINE REMOVED ET FOREBODY (T41) - LOUVERS FILLED. CT. FAIRING AND GO2 LINE REMOVED ROSEMONT STATIC P ROBE (PR12) + 0.3 6 SCALE FTP (PR4) -T41 OUT OF TUNN.	THE TEST OBJECTIV E WAS TO OBTAIN A SUPERSONIC CALIB RATION OF THE ASC ENT AIR DATA SYST EMS (AADS) THROUG H THE MACH RANGE OF 1.55 THROUGH 3 .5.	FORCE	0.07, 0.36/ 1.55 - 3.5	ROCKWELL/ ARC - 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY) 8-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	J. GAWIENOWSKI, J . BROWNSON /ARC R.R. BURROWS, W.R . CARLSON /RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2462 VOLUME 02 MARCH, 1983
ARC - 11TWT - 380-1 / 381-1 / OS41 OS42 OS45 CR-167,672	SPACE SHUTTLE LRS I TPS TILE TESTS OS41,OS42 AND OS4 5 IN THE NASA/AME S RESEARCH CENTER 11X11-FOOT WIND TUNNEL USING MODE L 107-0 (OS41,OS4 2 AND OS45)	107-0 LRSI TILE P ANEL	TO OBTAIN PERFORM ANCE CHARACTERIST ICS OF DAMAGED LR SI TILE AND MINI- TILE WHEN SUBJECT ED TO TRANSONIC S HOCK AND TURBULEN T FLOW ENVIRONMEN T	PRESSURE	0.76 - 0.87	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R.B. KINGSLAND/RO CKWELL S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2463 NOV., 1983

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - V41B-67 / OH84B CR-160,828	RESULTS OF HEAT T RANSFER TEST IN T HE ARNOLD ENGINEE RING DEVELOPMENT CENTER-VON KARMAN FACILITY TUNNELS A AND B UTILIZIN G SPACE SHUTTLE O RBITER THIN SKIN THERMOCOUPLE MODE LS 56-0, 60-0, AN D 83-0 TESTS: OH 84B, OH 105, IH-1 02	B62C12E52F10M16V3 OW127 (56-0)	TO DETERMINE AERO DYNAMIC HEATING O N THE SPACE SHUTT LE ORBITER WHERE DATA EXTRAPOLATIO N OR ANALYTICAL P REDICTIONS WERE N OT FEASIBLE OR DI D NOT EXIST. ALSO TO OBTAIN LIMITE D YAW DATA AND OB TAIN CONTINGENCY ABORT TRAJECTORY DATA	HEAT-TRANS	0.0175/ 3.01- 8.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	J.W.FOUST AND A.C .MANSFIELD/RI K.W.NUTT/VKFADP,A EDC T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2464 VOLUME 01 AUGUST, 1981
AEDC - HWTB - V41B-67 / OH84B CR-160,829	RESULTS OF HEAT T RANSFER TEST IN T HE ARNOLD ENGINEE RING DEVELOPMENT CENTER-VON KARMAN FACILITY TUNNELS A AND B UTILIZIN G SPACE SHUTTLE O RBITER THIN SKIN THERMOCOUPLE MODE LS 56-0, 60-0, AN D 83-0 TESTS: OH 84B, OH 105, IH-1 02	B62C12E52F10M16V3 OW127 (56-0)	TO DETERMINE AERO DYNAMIC HEATING O N THE SPACE SHUTT LE ORBITER WHERE DATA EXTRAPOLATIO N OR ANALYTICAL P REDICTIONS WERE N OT FEASIBLE OR DI D NOT EXIST. ALSO TO OBTAIN LIMITE D YAW DATA AND OB TAIN CONTINGENCY ABORT TRAJECTORY DATA	HEAT-TRANS	0.0175/ 3.01- 8.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	J.W.FOUST AND A.C .MANSFIELD/RI K.W.NUTT/VKFADP,A EDC T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2464 VOLUME 02 AUGUST, 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - HWTB - V41B-67 / OH84B CR-160,830	RESULTS OF HEAT TRANSFER TEST IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER-VON KARMAN FACILITY TUNNELS A AND B UTILIZING SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODELS 56-0, 60-0, AND 83-0 TESTS: OH84B, OH 105, IH-102	B62C12ES2F10M16V3OW127 (56-0)	TO DETERMINE AERODYNAMIC HEATING ON THE SPACE SHUTTLE ORBITER WHERE DATA EXTRAPOLATION OR ANALYTICAL PREDICTIONS WERE NOT FEASIBLE OR DID NOT EXIST. ALSO TO OBTAIN LIMITED YAW DATA AND OBTAIN CONTINGENCY ABORT TRAJECTORY DATA	HEAT-TRANS	0.0175/ 3.01- 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.W.FOUST AND A.C.MANSFIELD/RI K.W.NUTT/VKFADP,AEDC T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2464 VOLUME 03 AUGUST, 1981
AEDC - HWTB - V41B-67 / OH84B CR-160,831	RESULTS OF HEAT TRANSFER TEST IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER-VON KARMAN FACILITY TUNNELS A AND B UTILIZING SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODELS 56-0, 60-0, AND 83-0 TESTS: OH84B, OH 105, IH-102	B62C12ES2F10M16V3OW127 (56-0)	TO DETERMINE AERODYNAMIC HEATING ON THE SPACE SHUTTLE ORBITER WHERE DATA EXTRAPOLATION OR ANALYTICAL PREDICTIONS WERE NOT FEASIBLE OR DID NOT EXIST. ALSO TO OBTAIN LIMITED YAW DATA AND OBTAIN CONTINGENCY ABORT TRAJECTORY DATA	HEAT-TRANS	0.0175/ 3.01- 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	J.W.FOUST AND A.C.MANSFIELD/RI K.W.NUTT/VKFADP,AEDC T. L. MULKEY G. W. KLUG -DMS	DMS-DR-2464 VOLUME 04 AUGUST, 1981

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF HEAT T	B62C12E52F10M16R1	TO DETERMINE AERO	HEAT-TRANS	0.0175/	ROCKWELL/	J.W.FOUST AND A.C	DMS-DR-2464
HWTB -	RANSFER TEST IN T	8V8W116T38S26 (6	DYNAMIC HEATING O		3.01-	AEDC -	.MANSFIELD/RI	VOLUME 05
V41B-67 /	HE ARNOLD ENGINEE	0-0)	N THE SPACE SHUTT		8.0	HYPERSONIC WIN	K.W.NUTT/VKFADP,A	AUGUST, 1981
OH105	RING DEVELOPMENT		LE ORBITER WHERE			D TUNNEL (B)	EDC	
CR-160,832	CENTER-VON KARMAN		DATA EXTRAPOLATIO				T. L. MULKEY	
	FACILITY TUNNELS		N OR ANALYTICAL P				G. W. KLUG	
	A AND B UTILIZIN		REDICTIONS WERE N				-DMS	
	G SPACE SHUTTLE O		OT FEASIBLE OR DI					
	RBITER THIN SKIN		D NOT EXIST. ALSO					
	THERMOCOUPLE MODE		TO OBTAIN LIMITE					
	LS 56-0, 60-0, AN		D YAW DATA AND OB					
	D 83-0 TESTS: OH		TAIN CONTINGENCY					
	84B, OH 105, IH-1		ABORT TRAJECTORY					
	02		DATA					
AEDC -	RESULTS OF HEAT T	B60C10 (83-0)	TO DETERMINE AERO	HEAT-TRANS	0.040/	ROCKWELL/	J.W.FOUST AND A.C	DMS-DR-2464
SWTA -	RANSFER TEST IN T		DYNAMIC HEATING O		3.01-	AEDC -	.MANSFIELD/RI	VOLUME 06
V41A-67 /	HE ARNOLD ENGINEE		N THE SPACE SHUTT		8.0	SUPERSONIC WIN	K.W.NUTT/VKFADP,A	AUGUST, 1981
IH102	RING DEVELOPMENT		LE ORBITER WHERE			D TUNNEL (A)	EDC	
CR-160,833	CENTER-VON KARMAN		DATA EXTRAPOLATIO				T. L. MULKEY	
	FACILITY TUNNELS		N OR ANALYTICAL P				G. W. KLUG	
	A AND B UTILIZIN		REDICTIONS WERE N				-DMS	
	G SPACE SHUTTLE O		OT FEASIBLE OR DI					
	RBITER THIN SKIN		D NOT EXIST. ALSO					
	THERMOCOUPLE MODE		TO OBTAIN LIMITE					
	LS 56-0, 60-0, AN		D YAW DATA AND OB					
	D 83-0 TESTS: OH		TAIN CONTINGENCY					
	84B, OH 105, IH-1		ABORT TRAJECTORY					
	02		DATA					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE	MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 464 / 0S55/57 CR-167,674	AERODYNAMIC VENTING CHARACTERISTICS TESTS OF FULL-SCALE SPACE SHUTTLE MODEL 81-0 HRSI TPS TILES UNDER A SIMULATED LAUNCH ENVIRONMENT IN THE NAS /ARC 9X7-FOOT WIND TUNNEL (0S55/57)	81-0 HRSI TILE PANEL	TO DEFINE AND UNDERSTAND THE SURFACE AND INTERNAL PRESSURE RELATIONSHIPS FOR UNDENSIFIED TILES	PRESSURE		1.72-2.50	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. B. KINGSLAND,ROCKWELL S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2465 MARCH, 1984
LARC - 20HT6 - 6559 / 0A257 CR-167,663	RESULTS OF INVESTIGATIONS OF THE 0.010-SCALE OV-102 CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 72-0 IN THE NASA/LANGLEY RESEARCH CENTER 20-INCH MACH 6 TUNNEL (0A257)	B75,C16,E64,F16,M52,N108,N110,N111,R20,V27,W131	TO OBTAIN 6-COMPONENT VEHICLE FORCE AND MOMENT DATA, BASE AND STING-CAVITY PRESSURE DATA, AND SPECIAL THERMOCOUPLE DATA FROM THE MODEL	FORCE	0.010 /	6.0-8.0	ROCKWELL/LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6)	M.E. NICHOLS/RI R.L. CALLOWAY/LARC J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2466 VOLUME 01 JULY, 1983
LARC - 20HT6 - 6559 / 0A257 CR-167,664 TM-X 4	RESULTS OF INVESTIGATIONS OF THE 0.010-SCALE OV-102 CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 72-0 IN THE NASA/LANGLEY RESEARCH CENTER 20-INCH MACH 6 TUNNEL (0A257)	B75,C16,E64,F16,M52,N108,N110,N111,R20,V27,W131	TO OBTAIN 6-COMPONENT VEHICLE FORCE AND MOMENT DATA, BASE AND STING-CAVITY PRESSURE DATA, AND SPECIAL THERMOCOUPLE DATA FROM THE MODEL	FORCE	0.010 /	6.0-8.0	ROCKWELL/LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6)	M.E. NICHOLS/RI R.L. CALLOWAY/LARC J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2466 VOLUME 02 JULY, 1983

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 245 / IH103 CR-160,834	RESULTS OF AEROTH ERMODYNAMIC HEAT TRANSFER TESTS ON 0.0175-SCALE MOD ELS 60-OT AND 56- 0/60T CONDUCTED I N THE NASA/AMES R ESEARCH CENTER 3. 5-FOOT HYPERSONIC WIND TUNNEL (IH1 03)	60-OT 56-0/60T	TO OBTAIN AERODYN AMIC HEAT TRANSFE R DATA ON THE 56- 0/60T ORBITER FUS ELAGE AND ON THE 60-OT ORBITER FUS ELAGE, WING, VERT ICAL TAIL, AND OM S POD DURING SECO ND STAGE FLIGHT	HEAT-TRANS	0.0175 / 5.25 - 5.25	ROCKWELL/ ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	J. MARROQUIN, RI S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2467 AUGUST, 1981
ARC - 3.5HWT - 247 / 246 / OH105B OH84C CR-167,352	RESULTS OF A HEAT TRANSFER TEST SE RIES IN THE NASA/ ARC 3.5 FOOT HYPE RSONIC WIND TUNNE L UTILIZING SPACE SHUTTLE ORBITER THIN-SKIN THERMOC OUPLE MODELS 60-0 AND 83-0(TESTS 0 H84C AND OH105B)	ORBITER	TO DETERMINE AERO HEATING ON THE OR BITER AT ATTITUDE S WHERE DATA DID NOT EXIST AND WHE RE DATA EXTRAPOLA TION OF ANALYTICA L PREDICTIONS WAS NOT FEASIBLE	HEAT-TRANS	5.3 - 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2468 JUNE, 1982
ARC - 11TWT - 503-1 / OS302A CR-167,367	SPACE SHUTTLE AFR SI LARGE-SCALE DE VELOPMENT TEST US ING MODEL 117-0 S PECIMENS AND MODE L 96-0 TEST FIXTU RE IN THE AMES RE SEARCH CENTER 11X 11-FOOT TRANSONIC WIND TUNNEL (OS3 02A)		TO SUBJECT LARGE- SCALE SPECIMENS O F ADVANCED FLEXIB LE REUSABLE SURFA CE INSULATION (AF RSI) TO SSV ASCEN T AERODYNAMIC PRE SSURE GRADIENT LO ADINGS & TURBULEN CE LEVELS FOR TIM E DURATIONS EQUIV ALENT TO 100 MISS IONS WITH A SCATT ER OF FOUR (400 M ISSIONS).	PRESSURE	0.80- 0.88	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	J.G.R. COLLETTE/R I R.B. KINGSLAND/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2469 JUNE, 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 145-1 / OS31A CR-167,658	SPACE SHUTTLE LRSI THIN TILE TEST IN THE NASA/AMES RESEARCH CENTER 11X11-FOOT UNITARY PLAN WIND TUNNEL USING TEST FIXTURE 96-0 (OS31A)	LRSI (THIN TILE)	TO EVALUATE THE EFFECTS OF AN EXPANSION/RECOMPRESSION SHOCK ON A SAMPLE OF LOW TEMPERATURE REUSABLE SURFACE INSULATION (LRSI) THIN TILES SIMULATING THE REGION OF THE SPACE SHUTTLE ORBITER OVER THE CANOPY.	PRESSURE	0.83- 0.88	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R.B. KINGSLAND/ROCKWELL C. BERTHOLD/ROCKWELL S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2470 AUGUST, 1983
LARC - 16TT - 341 / LA132 CR-160,514	RESULTS OF TESTS ON A .02 SCALE SPACE SHUTTLE LAUNCH VEHICLE MODEL (890TS) IN THE LARC 16-FT TRANSONIC WIND TUNNEL TO DETERMINE PRESSURE DISTRIBUTION ALONG THE EXTERNAL TANK LOX CABLE TRAY (LA132)	LAUNCH VEHICLE - 890TS	TO DETERMINE PRESSURE DISTRIBUTION ALONG THE EXTERNAL TANK LOX CABLE TRAY	PRESSURE	.02 / 1.1 - 1.25	LARC / LARC - 16-FOOT TRANSONIC TUNNEL	W.I. SCALLION/LARC J. E. VAUGHN C. R. EDWARDS -DMS	DMS-DR-2471 JAN., 1981
AEDC - SWTA - V41B-65 / OH400 CR-160,494	RESULTS OF AN ORBITER SILTS POD HEAT TRANSFER AND FLOW FIELD TEST USING A 0.0175-SCALE SPACE SHUTTLE ORBITER(92-0) IN THE AEDC VKF HYPERSONIC WIND TUNNEL B (OH400)	B75C16E64F16M52W131V29 B75C16E64F16M52W131V31	TO MEASURE HEAT TRANSFER COEFFICIENTS ON THE SILTS TAIL CONFIGURATION OF A SCALED SPACE SHUTTLE ORBITER MODEL	PRESSURE		ROCKWELL/ AEDC - SUPERSONIC WIND TUNNEL (A)	J.A.COLLINS/RI K.W.NUTT/ARO,INC J. E. VAUGHN M. M. MANN -DMS	DMS-DR-2472 MAY, 1980

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ARC - 22TWT - 382-1 / OA252 CR-167,388	AERODYNAMIC LOADS TEST OF 0.66-SCA LE SPACE SHUTTLE ORBITER TILE ARRA Y MODEL (106-0) I N THE NASA/ARC 2- FOOT TRANSONIC WI ND TUNNEL (OA252)	TPS TILE CAVITY F LOW FIELD MODEL	TO DETERMINE PRES . DISTRIBUTIONS F OR THE OML. TILE CAVITY AND ON SID ES OF TILE SURROU NDING CAVITY; TO OBTAIN PRES. VARI ATIONS DUE TO TIL E HEIGHT MISMATCH ,VARIATIONS IN GA P WIDTH, AND VARI ATION IN RN/FT AN D BOUNDARY LAYER THICKNESS	PRESSURE		ROCKWELL/ ARC - 2-FOOT BY 2-FO OT TRANSONIC W IND TUNNEL	R.B.KINGSLAND,RI J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2473 VOLUME 01 JAN., 1983
ARC - 22TWT - 382-1 / OA252 CR-167,389	AERODYNAMIC LOADS TEST OF 0.66-SCA LE SPACE SHUTTLE ORBITER TILE ARRA Y MODEL (106-0) I N THE NASA/ARC 2- FOOT TRANSONIC WI ND TUNNEL (OA252)	TPS TILE CAVITY F LOW FIELD MODEL	TO DETERMINE PRES . DISTRIBUTIONS F OR THE OML. TILE CAVITY AND ON SID ES OF TILE SURROU NDING CAVITY; TO OBTAIN PRES. VARI ATIONS DUE TO TIL E HEIGHT MISMATCH ,VARIATIONS IN GA P WIDTH, AND VARI ATION IN RN/FT AN D BOUNDARY LAYER THICKNESS	PRESSURE		ROCKWELL/ ARC - 2-FOOT BY 2-FO OT TRANSONIC W IND TUNNEL	R.B.KINGSLAND,RI J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2473 VOLUME 02 JAN., 1983
MSFC - 14TWT - 656 / FA28 CR-160,826	RESULTS OF TESTS ON A .004 SCALE S PACE SHUTTLE LAUN CH CONFIGURATION (MODEL 74-OTS) IN THE NASA/MSFC 14 -INCH TRISONIC WI ND TUNNEL (FA28)	ORBITER ALONE LAUNCH CONFIGURAT ION (NO PROTUBERA NCES ON ET) LAUNCH CONFIGURAT ION	DETERMINE WAYS TO ALLEVIATE O/ET F WD AATTACH POINT LOADS VERIFY PREVIOUS D ATA OBTAINED AT A EDC	FORCE	.004 / 0.60 - 1.25	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	W.F. BRADDOCK/LMS C J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2474 JULY, 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 16TT - 342 / LA140 CR-160,509	PRESSURE DISTRIBUTION AND INTEGRATED LOADS AT FOUR STATIONS ON THE SPACE SHUTTLE TANK LOX FEEDLINE (LA 140)	LAUNCH VEHICLE (89-OTS)	DETERMINE DETAILED MEASUREMENTS OF PRESSURES ON THE LOX FEEDLINE AT FOUR STATIONS	PRESSURE	0.02 / 0.9- 1.25	LARC / LARC - 16-FOOT TRANSONIC TUNNEL	W.I.SCALLION/LARC J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2475 AUGUST, 1980
LARC - 20HT6 - 6546 / LA141A/B CR-160,825	RESULTS OF INVESTIGATIONS ON AN O.004-SCALE 140C MODIFIED CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL (74-0) IN THE NASA/LANGLEY RESEARCH CENTER 20-INCH MACH 6 TUNNEL (LA141)	ORBITER 74-0	TO (1)DETERMINE ORBITER DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS FROM 20-40 ANGLE OF ATTACK (2)TEST ANGLES OF ATTACK AND SIDESLIP FOR CONTINGENCY ABORT, (3)TEST SMALL NEGATIVE ANGLE OF ATTACK INCREMENTS TO VERIFY OTHER RESULTS (4)VALIDATE MACH=6 DATA	FORCE	0.004 / 6.0 - 6.0	LARC / LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6)	R.L. CALLOWAY/LARC J. E. VAUGHN C. R. EDWARDS -DMS	DMS-DR-2477 JUNE, 1981
LARC - UPWT - 1299 / LA131 CR-160,503	HIGH SUPERSONIC RUDDER EFFECTIVENESS AND EFFECT OF SILTS POD ON A O.020-SCALE (REMOTELY DRIVEN CONTROL SURFACE) MODEL 106-0 SPACE SHUTTLE ORBITER TESTED IN THE NASA/LARC 4-FOOT UNITARY PLAN WIND TUNNEL (LA131)	B75C16E64F16FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14VT15VT16VT17W131	THE TEST OBJECTIVES WERE TO DEFINE ORB RUDDER EFFECTIVENESS, DETERMINE AERO DIFF. BETWEEN FILLED AND SCALED OPEN SPEEDBRAKE, DETERMINE EFFECT OF SILTS POD ON AERO CHAR. OF THE ORBITER, SUPPLEMENT CONTROL EFFECTIVENESS DATA	FORCE	0.2/ 2.- 5 4.	LARC / LARC - UNITARY PLAN WIND TUNNEL	BERNARD SPENCER JR./LARC GEORGE M. WARE/LARC G. W. KLUG -DMS	DMS-DR-2478 VOLUME 01 AUGUST, 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1299 / LA131 CR-160,504	HIGH SUPERSONIC R UDDER EFFECTIVENE SS AND EFFECT OF SILTS POD ON A 0. 20-SCALE (REMOTEL Y DRIVEN CONTROL SURFACE) MODEL 10 6-0 SPACE SHUTTLE ORBITER TESTED I N THE NASA/LARC 4 -FOOT UNITARY PLA N WIND TUNNEL (LA 131)	B75C16E64F16FR22H G1M52N108N109N110 N111R20V27 VT10VT11VT12VT13V T14VT15VT16VT17W1 31	THE TEST OBJECTIV ES WERE TO DEFINE ORB RUDDER EFFEC TIVENESS. DETERMI NE AERO DIFF. BET WEEN FILLED AND S CALED OPEN SPEEDB RAKE. DETERMINE E FFECT OF SILTS PO D ON AERO CHAR. O F THE ORBITER. SU PPLEMENT CONTROL EFFECTIVENESS DAT A	FORCE	0.2/ 2.- .5 4.	LARC / LARC - UNITARY PLAN W IND TUNNEL	BERNARD SPENCER J R./LARC GEORGE M. WARE/LA RC G. W. KLUG -DMS	DMS-DR-2478 VOLUME 02 AUGUST, 1980
LARC - UPWT - 1299 / LA131 CR-160,505	HIGH SUPERSONIC R UDDER EFFECTIVENE SS AND EFFECT OF SILTS POD ON A 0. 20-SCALE (REMOTEL Y DRIVEN CONTROL SURFACE) MODEL 10 6-0 SPACE SHUTTLE ORBITER TESTED I N THE NASA/LARC 4 -FOOT UNITARY PLA N WIND TUNNEL (LA 131)	B75C16E64F16FR22H G1M52N108N109N110 N111R20V27 VT10VT11VT12VT13V T14VT15VT16VT17W1 31	THE TEST OBJECTIV ES WERE TO DEFINE ORB RUDDER EFFEC TIVENESS. DETERMI NE AERO DIFF. BET WEEN FILLED AND S CALED OPEN SPEEDB RAKE. DETERMINE E FFECT OF SILTS PO D ON AERO CHAR. O F THE ORBITER. SU PPLEMENT CONTROL EFFECTIVENESS DAT A	FORCE	0.2/ 2.- .5 4.	LARC / LARC - UNITARY PLAN W IND TUNNEL	BERNARD SPENCER J R./LARC GEORGE M. WARE/LA RC G. W. KLUG -DMS	DMS-DR-2478 VOLUME 03 AUGUST, 1980

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 250 / IH104 CR-167,657	RESULTS OF HEAT TRANSFER TESTS ON THE SPACE SHUTTLE SECOND STAGE ASCENT VEHICLE AT FREESTREAM MACH=5.3 AND 7.3 IN THE NASA/ARC 3.5-FOOT HWT USING THE 0.0175-SCALE MODEL 60-OT(IH104)	ORBITER+TANK	TO OBTAIN CONVECTIVE HEAT-TRANSFER RATE DISTRIBUTIONS ON THE UPPER BARREL OF THE SPACE SHUTTLE EXTERNAL TANK FOR SECOND STAGE ASCENT CONDITIONS AT ATTITUDES NOT ATTAINED DURING PREVIOUS TEST	PRESSURE	0.0175 / 5.3 - 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C.L.BERTHOLD.RI J.R.NAKAMOTO.RI	DMS-DR-2480 AUGUST, 1983
MSFC - 14TWT - 665 / IA602 CR-167,377	RESULTS OF TESTS IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A 0.004-SCALE MODEL (74-OTS) THRUST AUGMENTED SPACE SHUTTLE INTEGRATED VEHICLE (IA602)	OTS (MODEL 74) OTS + LBM OTS + LBM + FAIRING OTS + LBM + WA(FAIRING	TO DETERMINE INCREMENTAL AERODYNAMIC LOADS WITH & WITHOUT THE THRUST AUGMENTATION PROVIDED BY THE LIQUID BOOST MODULE	FORCE	0.004 / 0.60 - 4.96	ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	J. E. VAUGHN G. R. LUTZ -DMS	DMS-DR-2481 JUNE, 1983
ARC - 11TWT - 427-1 / 427-2 / OA400 CR-160,814	RESULTS OF TESTS FOR FORCE, MOMENT, PRESSURE AND AEROELASTIC DATA USING THE 0.030 SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-0) IN THE NASA/ARC 11 FOOT UNITARY PLAN WIND TUNNEL. (OA400)	ORBITER - 470	TO OBTAIN AIRLOADS INFORMATION WITH AND WITHOUT SILTS POD, OBTAIN OVERALL 102 WING DISTRIBUTED AIRLOADS, OBTAIN ELEVON DISTRIBUTED AIRLOADS AND HINGE MOMENTS, AND TO DETERMINE EFFECT OF VERTICAL TAIL AEROELASTICITY ON LATERAL-DIRECTIONAL CHARACTERISTICS OF THE ORBITER VEHICLE	FORCE PRESSURE	.03 / .6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. SPANGLER AND A. KANEVSKY/R.J. S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2482 VOLUME 01 [illegible], 1981

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ARC - 11TWT - 427-1 / 427-2 / OA400 CR-160,815	RESULTS OF TESTS FOR FORCE, MOMENT, PRESSURE AND AEROELASTIC DATA USING THE 0.030 SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-0 (IN THE NASA/ARC 11 FOOT UNITARY PLAN WIND TUNNEL. (OA400)	ORBITER - 470	TO OBTAIN AIRLOADS INFORMATION WITH AND WITHOUT SILTS POD, OBTAIN OV102 WING DISTRIBUTED AIRLOADS, OBTAIN ELEVON DISTRIBUTED AIRLOADS AND HINGE MOMENTS, AND TO DETERMINE EFFECT OF VERTICAL TAIL AEROELASTICITY ON LATERAL-DIRECTIONAL CHARACTERISTICS OF THE ORBITER VEHICLE	FORCE PRESSURE	.03 / .6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. SPANGLER AND A. KANEVSKY/R.I. S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2482 VOLUME 02 JAN., 1981
ARC - 11TWT - 427-1 / 427-2 / OA400 CR-160,816	RESULTS OF TESTS FOR FORCE, MOMENT, PRESSURE AND AEROELASTIC DATA USING THE 0.030 SCALE PRESSURE LOADS SPACE SHUTTLE ORBITER MODEL (47-0 (IN THE NASA/ARC 11 FOOT UNITARY PLAN WIND TUNNEL. (OA400)	ORBITER - 470	TO OBTAIN AIRLOADS INFORMATION WITH AND WITHOUT SILTS POD, OBTAIN OV102 WING DISTRIBUTED AIRLOADS, OBTAIN ELEVON DISTRIBUTED AIRLOADS AND HINGE MOMENTS, AND TO DETERMINE EFFECT OF VERTICAL TAIL AEROELASTICITY ON LATERAL-DIRECTIONAL CHARACTERISTICS OF THE ORBITER VEHICLE	FORCE PRESSURE	.03 / .6 - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R. SPANGLER AND A. KANEVSKY/R.I. S. R. HOULIHAN C. R. EDWARDS -DMS	DMS-DR-2482 VOLUME 03 JAN., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - PWT16T - TF-556 / 0S49 CR-167,357	RESULTS OF A TEST OF THE FULL-SCAL E NASA ORBITER VE RTICAL TAIL (MODE L 111-0) IN THE A EDC 16 FOOT PROPU LSION WIND TUNNEL (0S49)		TO CERTIFY THE TP S TILES COVERING THE FIN/RUDDER GA P REGION OF THE N ASA ORBITER VERTI CAL TAIL.	FORCE	1.0 / 0.80- 1.40	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	S.C. CARRION/RI C.L. STEVENS/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2483 VOLUME 01 JUNE, 1982
AEDC - PWT16T - TF-556 / 0S49 CR-167,358	RESULTS OF A TEST OF THE FULL-SCAL E NASA ORBITER VE RTICAL TAIL (MODE L 111-0) IN THE A EDC 16 FOOT PROPU LS23[%2[& 1[[]6 ,3\49.		TO CERTIFY THE TP S TILES COVERING THE FIN/RUDDER GA P REGION OF THE N ASA ORBITER VERTI CAL TA269	FORCE	1.0 / 0.80- 1.40	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	S.C. CARRION/RI C.L. STEVENS/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2483 VOLUME 02 JUNE, 1982
ARC - 11TWT - 425 / 425-1 / 0S50 0S50A CR-167,361	RESULTS OF VENT P ORT TPS LOADS TES TS IN THE AMES RE SEARCH CENTER (AR C) 11X11-FOOT WIN D TUNNEL USING MO DEL 113-0 (0S50/0 S50A)	CALIBRATION PANEL HRSI PANEL FRSI PANEL	DETERMINE AIRLOAD S DISTRIBUTION ON TPS MATERIAL ARO UND VENT PORTS W/ AND W/O JET MASS FLOW, AND TO CER TIFY HRSI TILES A ND FRSI TO 1.4 T1 MES DESIGN DYNAMI C PRESSURES(ULTIM ATE) AIRLOADS	PRESSURE FORCE	FULL / 0. - 1.4	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R. B. KINGSLAND/R OCKWELL S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2485 JUNE, 1982

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AEDC - PWT16T - 572 / OA253 CR-167,368	RESULTS OF WIND T UNNEL TEST OA253 IN THE AEDC 16-T PROPULSION WIND T UNNEL USING A 0.0 35-SCALE SS LAUNC H VEHICLE MODEL 8 4-OTS & ENTRY VEH ICLE MODEL 84-0	B64C14E63F14M18N9 2N94R18U2V23W129 S28 T40	TO DETERMINE THE STATIC & FLUCTUAT ING PRESSURE ENVI RONMENT FOR CERTI FYING THERMAL PRO TECTION SYSTEM (T PS) TILES IN CONT ROL SURFACE GAPS ON THE WING & VER TICAL TAIL, & TO PROVIDE STATIC PR ESSURE DATA FOR A IRLOADS ANALYSIS OF WINDSHIELD,ELE VON/WING TIP,ETC.	PRESSURE	0.035 / 0.6- 1.50	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	J.A. BLACK/ARVIN/ CALSPAN R.R. BURROWS/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2486 VOLUME 01 OCT., 1982
AEDC - PWT16T - 572 / OA253 CR-167,369	RESULTS OF WIND T UNNEL TEST OA253 IN THE AEDC 16-T PROPULSION WIND T UNNEL USING A 0.0 35-SCALE SS LAUNC H VEHICLE MODEL 8 4-OTS & ENTRY VEH ICLE MODEL 84-0	B64C14E63F14M18N9 2N94R18U2V23W129 S28 T40	TO DETERMINE THE STATIC & FLUCTUAT ING PRESSURE ENVI RONMENT FOR CERTI FYING THERMAL PRO TECTION SYSTEM (T PS) TILES IN CONT ROL SURFACE GAPS ON THE WING & VER TICAL TAIL, & TO PROVIDE STATIC PR ESSURE DATA FOR A IRLOADS ANALYSIS OF WINDSHIELD,ELE VON/WING TIP,ETC.	PRESSURE	0.035 / 0.6- 1.50	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	J.A. BLACK/ARVIN/ CALSPAN R.R. BURROWS/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2486 VOLUME 02 OCT., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 380-1 / 436-1,3 / OS43 OS51 OS51B OS51C CR-167,362	RESULTS OF AMES GAP FILLER TESTS USING TEST FIXTURE 96-0 IN THE NASA /AMES 11X11-FOOT TUNNEL (OS43,OS51,OS51B,OS51C)	HRSI TILED PANEL	TO DEMONSTRATE THAT THE TILES AND GAP FILLERS REMAINED ATTACHED TO THE STRUCTURE UNDER SIMULATED FLIGHT ENVIRONMENTS	PRESSURE	.70- .88	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R.B. KINGSLAND/ROCKWELL S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2487 OCT., 1982
ARC - 22TWT - 458 / OS300 CR-160,835	PRELIMINARY SCREENING TESTS OF THE SPACE SHUTTLE AFRSI MATERIAL USING MODEL 115-0 IN THE NASA/AMES RESEARCH CENTER 2X2 FOOT TRANSONIC WIND TUNNEL (OS300)	AFRSI PANEL CALIBRATION PANEL	GATHER INFORMATION TO AID IN THE SELECTION OF AFRSI BLANKET CONFIGURATION SUITABLE FOR SUBSEQUENT MATERIAL CHARACTERIZATION AND SYSTEM QUALIFICATION TEST PROGRAMS	PRESSURE	0.8 - 1.4	ROCKWELL/ ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TUNNEL	R. B. KINGSLAND,J. GEE, RI S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2488 SEPT., 1981
AEDC - PWT16T - TF-608 / OS56 CR-167,366	RESULTS OF A WIND TUNNEL TEST ON THE SPACE SHUTTLE UMBILICAL PURGE CURTAIN IN THE AEDC 16-T PROPULSION WIND TUNNEL (PWT), USING MODEL 108-0 (OS56)		TO DETERMINE THE BREAK-AWAY CHARACTERISTICS OF THE SS ORBITER UMBILICAL PURGE CURTAIN DURING LAUNCH.	PRESSURE	1.0 / 0.0- 0.4	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	R.H. SPANGLER/RI R.G. MEYER/CALSPAN S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2489 JUNE, 1982

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AEDC -	TEST RESULTS FROM	60-0	TO OBTAIN ADDITIO	PRESSURE	0.0175 ,	ROCKWELL/	JIM A. COLLINS, J	DMS-DR-2490
HWTB -	THE NASA/ROCKWEL	56-0	NAL AERODYNAMIC H		0.04 /	AEDC -	IM GEE, ROCKWELL	VOLUME 01
V41B-G9 /	L INTERNATIONAL S	83-0	EATING DATA IN FI		8.0 -	HYPERSONIC WIN	KENNETH W. NUTT,	JULY, 1982
OH109	PACE SHUTTLE 0.01		NER DETAIL THAN P		8.0	D TUNNEL (B)	AEDC(CALSPAN)	
CR-167,349	75-SCALE ORBITER		REVIOUSLY TESTED				S. R. HOULIHAN	
	MODELS 56-0/60-0		FOR ORBITER STS-1				B. J. BURST	
	AND 0.04-SCALE OR		ENTRY YAW ANGLES				-DMS	
	BITER FOREBODY MO							
	DEL 83-0 CONDUCTE							
	D IN THE AEDC/VKF							
	-B 50-INCH HYPERS							
	ONIC WIND TUNNEL							
	(TESTS OH109 & OH							
	109B)							
AEDC -	TEST RESULTS FROM	60-0	TO OBTAIN ADDITIO	PRESSURE	0.0175 ,	ROCKWELL/	JIM A. COLLINS, J	DMS-DR-2490
HWTB -	THE NASA/ROCKWEL	56-0	NAL AERODYNAMIC H		0.04 /	AEDC -	IM GEE, ROCKWELL	VOLUME 02
V41B-G9 /	L INTERNATIONAL S	83-0	EATING DATA IN FI		8.0 -	HYPERSONIC WIN	KENNETH W. NUTT,	JULY, 1982
OH109	PACE SHUTTLE 0.01		NER DETAIL THAN P		8.0	D TUNNEL (B)	AEDC(CALSPAN)	
CR-167,350	75-SCALE ORBITER		REVIOUSLY TESTED				S. R. HOULIHAN	
	MODELS 56-0/60-0		FOR ORBITER STS-1				B. J. BURST	
	AND 0.04-SCALE OR		ENTRY YAW ANGLES				-DMS	
	BITER FOREBODY MO							
	DEL 83-0 CONDUCTE							
	D IN THE AEDC/VKF							
	-B 50-INCH HYPERS							
	ONIC WIND TUNNEL							
	(TESTS OH109 & OH							
	109B)							

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AEDC - HWTB - V41B-G9 / OH109 CR-167,351	TEST RESULTS FROM THE NASA/ROCKWELL INTERNATIONAL SPACE SHUTTLE 0.0175-SCALE ORBITER MODELS 56-0/60-0 AND 0.04-SCALE ORBITER FOREBODY MODEL 83-0 CONDUCTED IN THE AEDC/VKF-B 50-INCH HYPERSONIC WIND TUNNEL (TESTS OH109 & OH109B)	60-0 56-0 83-0	TO OBTAIN ADDITIONAL AERODYNAMIC HEATING DATA IN FINER DETAIL THAN PREVIOUSLY TESTED FOR ORBITER STS-1 ENTRY YAW ANGLES	PRESSURE	0.0175 , 0.04 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	JIM A. COLLINS, JIM GEE, ROCKWELL KENNETH W. NUTT, AEDC(CALSPAN) S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2490 VOLUME 03 JULY, 1982
AEDC - HWTB - V41B-HO / OA258 CR-167,659	RESULTS OF INVESTIGATIONS ON THE 0.020-SCALE OV-102 CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 106-0 IN THE USAF/AEDC VKF TUNNEL B (OA258)	B75C16E64F16FD3FR22HG1M52N108N109N110N111R20V27VT10VT11VT12VT13VT14VT15VT16VT17W131	TO VERIFY ORBITER STATIC STABILITY CHARACTERISTICS, THE LATERAL DIRECTIONAL TRIM LIMITS IN THE MACH 6 TO 8 REGIME, TO INVESTIGATE THE HYPERSONIC STABILITY-DERIVATIVE ANOMALIES ENCOUNTERED IN TESTS LA141 & LA144, & PROVIDE HIGH-ACCURACY FORCE & MOMENT HYPERSONIC DATA	FORCE	0.020 / 6.0	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	R.H. BURT/ARVIN/CALSPAN A.C. MANSFIELD/RI,MSFC S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2491 VOLUME 01 SEPT., 1983

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AEDC - HWTB - V41B-HO / OA258 CR-167,660	RESULTS OF INVEST IGATIONS ON THE O .020-SCALE OV-102 CONFIGURATION SP ACE SHUTTLE VEHIC LE ORBITER MODEL 106-0 IN THE USAF /AEDC VKF TUNNEL B (OA258)	B75C16E64F16FD3FR 22HG1M52N108N109N 110N111R20V27VT10 VT11VT12VT13VT14V T15VT16VT17W131	TO VERIFY ORBITER STATIC STABILITY CHARACTERISTICS, THE LATERAL DIRE CTIONAL TRIM LIMI TS IN THE MACH 6 TO 8 REGIME, TO I NVESTIGATE THE HY PERSONIC STABILIT Y-DERIVATIVE ANOM ALIES ENCOUNTERED IN TESTS LA141 & LA144, & PROVIDE HIGH-ACCURACY FO RCE & MOMENT HYPE RSONIC DATA	FORCE	0.020 / 6.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	R.H. BURT/ARVIN/C ALSPAN A.C. MANSFIELD/RI ,MSFC S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2491 VOLUME 02 SEPT., 1983
AEDC - HWTB - V41B-HO / OA258 CR-167,661	RESULTS OF INVEST IGATIONS ON THE O .020-SCALE OV-102 CONFIGURATION SP ACE SHUTTLE VEHIC LE ORBITER MODEL 106-0 IN THE USAF /AEDC VKF TUNNEL B (OA258)	B75C16E64F16FD3FR 22HG1M52N108N109N 110N111R20V27VT10 VT11VT12VT13VT14V T15VT16VT17W131	TO VERIFY ORBITER STATIC STABILITY CHARACTERISTICS, THE LATERAL DIRE CTIONAL TRIM LIMI TS IN THE MACH 6 TO 8 REGIME, TO I NVESTIGATE THE HY PERSONIC STABILIT Y-DERIVATIVE ANOM ALIES ENCOUNTERED IN TESTS LA141 & LA144, & PROVIDE HIGH-ACCURACY FO RCE & MOMENT HYPE RSONIC DATA	FORCE	0.020 / 6.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	R.H. BURT/ARVIN/C ALSPAN A.C. MANSFIELD/RI ,MSFC S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2491 VOLUME 03 SEPT., 1983

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AEDC - HWTB - V41B-HO / OA258 CR-167,662	RESULTS OF INVEST IGATIONS ON THE O .020-SCALE OV-102 CONFIGURATION SP ACE SHUTTLE VEHIC LE ORBITER MODEL 106-O IN THE USAF /AEDC VKF TUNNEL B (OA258)	B75C16E64F16FD3FR 22HG1M52N108N109N 110N111R20V27VT10 VT11VT12VT13VT14V T15VT16VT17W131	TO VERIFY ORBITER STATIC STABILITY CHARACTERISTICS, THE LATERAL DIRE CTIONAL TRIM LIMI TS IN THE MACH 6 TO 8 REGIME, TO I NVESTIGATE THE HY PERSONIC STABILIT Y-DERIVATIVE ANOM ALIES ENCOUNTERED IN TESTS LA141 & LA144, & PROVIDE HIGH-ACCURACY FO RCE & MOMENT HYPE RSONIC DATA	FORCE	0.020 / 6.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	R.H. BURT/ARVIN/C ALSPAN A.C. MANSFIELD/RI ,MSFC S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2491 VOLUME 04 SEPT., 1983
AEDC - HWTB - V43B-17 / OH107 CR-167,359	RESULTS OF THE SS V ELEVON GAP HEAT ING TESTS USING T HE 0.025-SCALE SP ACE SHUTTLE ORBIT ER MODEL (94-O) I N THE AEDC/VKF HY PERSONIC WIND TUN NEL B (OH107)	OV-102 (RIGHT HAN D WING AND TRUNCA TED AFT FUSELAGE)	ELEVON GAP HEATIN G RATES	HEAT-TRANS	0.025 / 8.0 - 8.0	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	J. COLLINS/RI S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2492 JUNE, 1982
AEDC - HWTB - V42B-145 / V43B-14 / OA259 CR-167,665	RESULTS OF INVEST IGATIONS OF THE O .010-SCALE OV-102 CONFIGURATION SP ACE SHUTTLE VEHIC LE ORBITER MODEL 72-O IN THE NASA/ AEDC VKF TUNNEL B (OA259)	B75,C16,E64,F16,M 52,N108,N109,N110 ,N111,R20,V27,W13 1	TO CONTINUE INVES TIGATIONS OF THE MACH 6 TO 8 LATER AL DIRECTIONAL ST ABILITY ANOMALIES ORIGINALLY ENCOU NTERED IN TESTS L A141,LA144, AND O A258	FORCE	0.010 / 6.0-	ROCKWELL/ AEDC - HYPERSONIC WIN D TUNNEL (B)	R.H. BURT,W. CROS BY,J.T. BEST/AEDC /CALSPAN R.H. SPANGLER,M.E . NICHOLS/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2493 VOLUME 01 AUGUST, 1983

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AEDC - HWTB - V42B-145 / V43B-14 / OA259 CR-167,666	RESULTS OF INVESTIGATIONS OF THE 0.010-SCALE OV-102 CONFIGURATION SPACE SHUTTLE VEHICLE ORBITER MODEL 72-0 IN THE NASA/AEDC VKF TUNNEL B	B75,C16,E64,F16,M52,N108,N109,N110,N111,R20,V27,W131	TO CONTINUE INVESTIGATIONS OF THE MACH 6 TO 8 LATERAL DIRECTIONAL STABILITY ANOMALIES ORIGINALLY ENCOUNTERED IN TESTS LA141,LA144, AND OA258	FORCE	0.010 / 6.0-	ROCKWELL/ AEDC - HYPERSONIC WIND TUNNEL (B)	R.H. BURT,W. CROSBY,J.T. BEST/AEDC/CALSPAN R.H. SPANGLER,M.E. NICHOLS/RI S. R. HOULIHAN G. W. KLUG -DMS	DMS-DR-2493 VOLUME 02 AUGUST, 1983
ARC - 3.5HWT - 254 / OH108 CR-167,360	AERODYNAMIC HEATING TESTS OF A 0.10-SCALE SS ORBITER ELEVON/ELEVON GAP MODEL 93-0 IN THE NASA/ARC 3.5 FOOT HYPERSONIC WIND TUNNEL (OH108)	OV-102 ELEVON GAP	ELEVON/ELEVON GAP AND STUB HEATING DISTRIBUTION	PRESSURE	0.10 / 7.3 - 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD/RI S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2494 JUNE, 1982
ARC - 3.5HWT - 253 / OH110 CR-160,844	TEST RESULTS FROM THE NASA/ROCKWELL INTERNATIONAL SPACE SHUTTLE 0.0175-SCALE ORBITER MODELS 56-0/60-0 AND THE 0.04-SCALE ORBITER FOREBODY MODEL 83-0 CONDUCTED IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (TEST OH110)	56-0 60-0 83-0	OBTAIN ORBITER HEATING DATA TO ESTABLISH MACH NUMBER SENSITIVITY OF ORBITER IN YAW	PRESSURE	0.0175 , 0.04 / 5.3 - 7.3	ROCKWELL/ ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	C. L. BERTHOLD,J. GEE,ROCKWELL S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2495 OCT., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC -	RESULTS OF THE TR	0.0175-SCALE 56-0	TO OBTAIN HEAT TR	HEAT-TRANS	8.0-	ROCKWELL/	C. L. BERTHOLD/RI	DMS-DR-2496
HWTB -	ANSATLANTIC ABORT	0.0175-SCALE 60-0	ANSFER DATA ON OR		8.0	AEDC -	S. R. HOULIHAN	VOLUME 01
V41B-1C /	MANEUVER TEST(OH	0.04-SCALE FOREBO	BITER AT ATTITUDE			HYPERSONIC WIN	B. J. BURST	NOV., 1982
OH111	111) USING THE O.	DY 83-0	S THAT WOULD BE E			D TUNNEL (B)	-DMS	
CR-167,380	0175-SCALE 56-0 A		NCOUNTERED IN A T					
	ND 60-0, AND THE		RANSATLANTIC ABOR					
	0.04-SCALE 83-0 T		T MANEUVER					
	HIN SKIN THERMOCO							
	UPLE MODELS IN TH							
	E AEDC VKF TUNNEL							
	B HYPERSONIC WIN							
	D TUNNEL(OH111)							
AEDC -	RESULTS OF THE TR	0.0175-SCALE 56-0	TO OBTAIN HEAT TR	HEAT-TRANS	8.0-	ROCKWELL/	C. L. BERTHOLD/RI	DMS-DR-2496
HWTB -	ANSATLANTIC ABORT	0.0175-SCALE 60-0	ANSFER DATA ON OR		8.0	AEDC -	S. R. HOULIHAN	VOLUME 02
V41B-1C /	MANEUVER TEST(OH	0.04-SCALE FOREBO	BITER AT ATTITUDE			HYPERSONIC WIN	B. J. BURST	NOV., 1982
OH111	111) USING THE O.	DY 83-0	S THAT WOULD BE E			D TUNNEL (B)	-DMS	
CR-167,381	0175-SCALE 56-0 A		NCOUNTERED IN A T					
	ND 60-0, AND THE		RANSATLANTIC ABOR					
	0.04-SCALE 83-0 T		T MANEUVER					
	HIN SKIN THERMOCO							
	UPLE MODELS IN TH							
	E AEDC VKF TUNNEL							
	B HYPERSONIC WIN							
	D TUNNEL(OH111)							
AEDC -	RESULTS OF THE TR	0.0175-SCALE 56-0	TO OBTAIN HEAT TR	HEAT-TRANS	8.0-	ROCKWELL/	C. L. BERTHOLD/RI	DMS-DR-2496
HWTB -	ANSATLANTIC ABORT	0.0175-SCALE 60-0	ANSFER DATA ON OR		8.0	AEDC -	S. R. HOULIHAN	VOLUME 03
V41B-1C /	MANEUVER TEST(OH	0.04-SCALE FOREBO	BITER AT ATTITUDE			HYPERSONIC WIN	B. J. BURST	NOV., 1982
OH111	111) USING THE O.	DY 83-0	S THAT WOULD BE E			D TUNNEL (B)	-DMS	
CR-167,382	0175-SCALE 56-0 A		NCOUNTERED IN A T					
	ND 60-0, AND THE		RANSATLANTIC ABOR					
	0.04-SCALE 83-0 T		T MANEUVER					
	HIN SKIN THERMOCO							
	UPLE MODELS IN TH							
	E AEDC VKF TUNNEL							
	B HYPERSONIC WIN							
	D TUNNEL(OH111)							

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1311 / 16TT - 1358 / 0A255 0A256 CR-167,656	RESULTS OF SPACE SHUTTLE ORBITER (MODEL 70-0) LATE ENTRY RCS YAW JET EFFECTS TESTS IN THE NASA/LARC UP WT AND 16-FT. WIN D TUNNELS (0A255/ 0A256)	102 (PRELIMINARY)	RCS JET INTERACTI ON EFFECTS	FORCE	0.0125 / 2.5 - 4.5	ROCKWELL/ LARC - UNITARY PLAN W IND TUNNEL 16-FOOT TRANSO NIC TUNNEL	J. MARROQUIN/RI J. J. DAILEDA/RI S. R. HOULIHAN J. E. VAUGHN -DMS	DMS-DR-2498 AUGUST, 1983
ARC - 40SWT - 473 / 0A164 CR-160,836	RESULTS OF TESTS USING A 0.36-SCAL E MODEL (76-0) OF THE SSV ORBITER 101 IN THE NASA/A MES RESEARCH CENT ER 40X80-FOOT SUB SONIC WIND TUNNEL (0A164)	B69C14DT1E54F14FD 1FD2FR12HA1HG1M18 N92N94N107PR1R18V 23VT1VT2W129	MEASURE TURBULENC E IN WAKE OF ORB FUSELAGE USING HF A;DETERMINE RN/L DEPENDENCE ON ORB WAKE CHARACTERIS TICS,AND ABILTIY OF TAILCONE/SCOOP S TO REDUCE TURBU LENCE;AND TO OBTA IN FLIGHT TEST PR OBE DATA W/WO A T AILCONE	PRESSURE	0.36 / 0.07 - 0.26	ROCKWELL/ ARC - 40-FOOT BY 80- FOOT SUBSONIC WIND TUNNEL	T.J. DZIUBALA,R.R . BURROWS,J.MARRO QUIN/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2499 AUGUST, 1981
ARC - 22TWT - 467-1 / 0S301 CR-160,848	PHASE II SCREENIN G TEST OF AFRSI M ATERIAL USING MOD EL 115-0 IN THE A MES RESEARCH CENT ER 2X2-FOOT TRANS ONIC WIND TUNNEL (0S301)	115-0 AFRSI MATER IAL PANELS	TO CONTINUE THE S CREENING PROCESS INITIATED ON 0S30 O BY INVESTIGATIN G THE RELATIVE DU RABILITY OF VARIO US CONFIGURATIONS OF AFRSI	PRESSURE	0.85 - 1.1	ROCKWELL/ ARC - 2-FOOT BY 2-FO OT TRANSONIC W IND TUNNEL	J. G. R. COLLETTE /RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2500 DEC., 1981

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 501-1 / OS304A CR-167,373	SPACE SHUTTLE AFRSI OMS PODS/JOINTS DEVELOPMENT TEST USING MODEL 116-0 SPECIMENS & MODEL 96-0 TEST FIXTURE IN THE AMES RESEARCH CENTER 11X11-FOOT TRANSONIC WIND TUNNEL (OS304A)		TO SUBJECT ADVANCED FLEXIBLE REUSABLE SURFACE INSULATION(AFRSI) SPECIMENS TO AN ENVIRONMENT SIMULATING THE FLOW CHARACTERISTICS ENCOUNTERED AT THE OMS PODS OF THE SSV DURING ASCENT, & TO EVALUATE THE AFRSI JOINTS IN THIS ENVIRONMENT	PRESSURE	0.76- 0.88	ROCKWELL/ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	J.G.R. COLLETTE/RI J.M. RIVIN/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2501 OCT., 1982
ARC - 97SWT - 501-1 / OS304B CR-167,378	SPACE SHUTTLE AFRSI OMS PODS/JOINTS DEVELOPMENT TEST USING MODEL 116-0 SPECIMENS AND MODEL 81-0 TEST FIXTURE IN THE AMES RESEARCH CENTER 9X7-FOOT SUPERSONIC WIND TUNNEL (OS304B)		TO SUBJECT ADVANCED FLEXIBLE REUSABLE SURFACE INSULATION (AFRSI) SPECIMENS TO AN ENVIRONMENT SIMULATING THE FLOW CHARACTERISTICS ENCOUNTERED AT THE OMS PODS OF THE SSV DURING ASCENT & TO EVALUATE THE AFRSI JOINTS IN THIS ENVIRONMENT	PRESSURE	1.5	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J.G.R. COLLETTE/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2502 AUGUST, 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC -	RESULTS OF COMBIN	20A	TO VERIFY THAT TP	PRESSURE	0.6-	ROCKWELL/	W.I. WATSON/LARC	DMS-DR-2503
8TPT -	ED LOADS ORBITER	20C	S TILES REMAIN AT		1.1	LARC -	R.R. BURROWS/RI	JULY, 1982
905,6,7,9/	TEST (CLOT) IN TH	20D (NOT TESTED)	TACHED TO FLIGHT			8-FOOT TRANSON	S. R. HOULIHAN	
OS53A	E NASA/LARC 8-FOO		STRUCTURE UNDER A			IC PRESSURE TU	G. R. LUTZ	
OS53B	T TPT USING THREE		SCENT CONDITIONS;			NNEL	-DMS	
CR-167,363	CONFIGURATION 20		COMPARE MEASURED					
	TPS FLOW TEST PA		& PREDICTED TILE					
	NELS (OS53A/B)		& SIP LOADS & TI					
			LE RESPONSES; & D					
			ETERMINE TILE ROU					
			GHNESS AFTER SING					
			LE & REPEATED MIS					
			SIONS					
ARC -	SPACE SHUTTLE AFR		TO SUBJECT LARGE-	PRESSURE	1.8	ROCKWELL/	J.G.R. COLLETTE/R	DMS-DR-2504
97SWT -	SI LARGE-SCALE DE		SCALE SPECIMENS O			ARC -	I	SEPT., 1982
503-1 /	VELOPMENT TEST US		F ADVANCED FLEXIB			9-FOOT BY 7-FO	S. R. HOULIHAN	
OS302B	ING MODEL 117-O S		LE REUSABLE SURFA			OT SUPERSONIC	G. R. LUTZ	
CR-167,379	PECIMENS AND MODE		CE INSULATION (AF			WIND TUNNEL (U	-DMS	
	L 81-O TEST FIXTU		RSI) TO SS ORBITE			NITARY)		
	RE IN THE AMES RE		R ASCENT AERODYNA					
	SEARCH CENTER 9X		MIC PRESSURE GRAD					
	7-FOOT SUPERSONIC		IENT LOADINGS & T					
	WIND TUNNEL (OS3		URBULENCE LEVELS					
	02B)		FOR TIME DURATION					
			S EQUIVALENT TO 1					
			OO MISSIONS WITH					
			A SCATTER OF FOUR					
			(400 MISSIONS)					

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
AEDC - PWT16T - TF-551 / OS46A-G CR-167,376	RESULTS OF ASCENT AERODYNAMIC LOAD ING TESTS OF THE SS THERMAL PROTEC TION SYSTEM (TPS) IN & AROUND THE ORBITER/ET UMBILI CAL DOOR & CAVITY , USING MODELS 10 8-0 & 1090 IN THE AEDC 16-T PROPUL SION WIND TUNNEL (OS46A-G)		TO DETERMINE THE TRANSONIC FLOW EF FECTS ON THE TPS TILES, DOOR & CAV ITY THERMAL BARRI ERS, FOAM ON THE UMBILICAL, PRESSU RE SEAL, CLOSEOUT CURTAIN, & DOOR FLOW RESTRICTOR	PRESSURE	1.15	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	R.G. MEYER/ARVIN/ CALSPAN R.R. BURROWS/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2505 AUGUST, 1982
ARC - 11TWT - 500,07,31/ 97SWT - OS60,1,2,3 CR-167,384	GAP FILLER REUSE TESTS OF FULL-SCA LE SPACE SHUTTLE ORBITER TILE ARRA Y MODELS IN THE N ASA/ARC 9X7-FOOT AND 11-FOOT UNITA RY PLAN WIND TUNN EL (OS60,OS61A,OS 61B,OS62,OS62A, A ND OS63)			PRESSURE		ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	L.P. LEBLANC/ROCK WELL S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2506 DEC., 1982
ARC - 11TWT - 510-1 / 97SWT - MA33A/B CR-167,683	RESULTS OF INVEST IGATIONS OF THE S PACE SHUTTLE ORBI TER ONE-QUARTER-H ERTZ OSCILLATION ANOMALY IN THE NA SA/AMES RESEARCH CENTER 11X11-FOOT AND 9X7-FOOT WIN D TUNNELS USING 0 .02-SCALE MODEL 1 06-0 (MA33A/B)	ORBITER MODEL 106 -0	TO CHECK THE RUDD ER AND AILERON EF FECTIVENESS AND T HE ORBITER LATERA L/DIRECTIONAL HYS TERESIS, AND TO P ROVIDE INFORMATIO N TO AID IN UNDER STANDING STS 1-3 ONE-QUARTER-HERTZ ANOMALY	FORCE	0.02 / 0.- 6 2.	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U [illegible]	R. H. SPANGLER/RI R. P. CLARK/RI S. R. HOULIHAN B. J. BUSS[illegible] -DMS	[illegible] [illegible]

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 548-1 / 97SWT - OS306A/B CR-167,650	SPACE SHUTTLE AFR SI DESIGN CRITERI A DEVELOPMENT TES TS IN THE NASA/AM ES RESEARCH CENTE R 11X11-FOOT AND 9X7-FOOT WIND TUN NELS USING MODEL 23-0 (OS306A/B)	FIXTURE 96-0 FIXTURE 81-0	TO EVALUATE DESIG N/ENGINEERING CON CEPTS FOR APPLICA TION AND REPAIR O F THE ADVANCED FL EXIBLE REUSABLE S URFACE INSULATION (AFRSI) BLANKET MATERIAL ON SPACE SHUTTLE ORBITER (OV103) AND TO SU PPORT THE AFRSI C ERTIFICATION PROG RAM	PRESSURE	0.08 - 1.8	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	B.A. MARSHALL/RI R.B. KINGSLAND/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2508 JAN., 1983
ARC - 11TWT - 549-1 / 97SWT - OA307A/B CR-167,654	SPACE SHUTTLE FRC I-12 TPS TILE VEN TING TEST IN THE NASA/AMES RESEARC H CENTER 11X11-FO OT AND 9X7-FOOT W IND TUNNELS (OA37 A/B)	FLAT PANEL W/FRCI -12 TILES	TO OBTAIN VENTING CHARACTERISTICS AND INTERNAL PRES SURES OF FIBROUS REINFORCED COMPOS ITE INSULATION (F RCI-12) TPS TILES EXPOSED TO PRESS URE GRADIENTS ASS OCIATED WITH AERO DYNAMIC SHOCKS DU RING SS ASCENT	PRESSURE	.78- 1.80	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY) 9-FOOT BY 7-FO OT SUPERSONIC WIND TUNNEL (U NITARY)	B.A. MARSHALL/RI R.B. KINGSLAND/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2509 DEC., 1982
ARC - 11TWT - 548-1 / OS309A CR-167,651	SPACE SHUTTLE AFR SI FULL-SCALE CRE DIBILITY TEST IN THE NASA/AMES RES EARCH CENTER 11X1 1-FOOT WIND TUNNE L USING MODEL 124 -0 INSTALLED IN T HE 96-0 TEST FIXT URE (OS309A)		TO DEMONSTRATE BA SIC AFRSI FLEXIBL E BLANKET CAPABIL ITY IN AN EXPANSI ON/RECOMPRESSION SHOCK ENVIRONMENT	PRESSURE	0.80- 0.88	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	B.A. MARSHALL/RI R.B. KINGSLAND/RI S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2510 DEC., 1982

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF COLD P	75-OTS	TO DETERMINE THE	PRESSURE	0.010 /	ROCKWELL/	R. H. SPANGLER,J.	DMS-DR-2511
11TWT -	LUME TESTS OF THE		EFFECTS OF GASEOU		0.6 -	ARC -	G. R. COLLETTE/R	VOLUME 01
561-1 /	0.010-SCALE MODE		S AND SOLID PLUME		1.4	11-FOOT TRANSO	I	OCT., 1983
IA300	L (75-OTS) IN THE		S ON THE FOREBODY			NIC WIND TUNNE	S. R. HOULIHAN	
CR-167,669	NASA/AMES RESEAR		PRESSURE DISTRIB			L (UNITARY)	B. J. BURST	
	CH CENTER 11X11-F		UTION OF THE SPAC				-DMS	
	OOT WIND TUNNEL (		E SHUTTLE INTEGRA					
	IA300)		TED VEHICLE					
ARC -	RESULTS OF COLD P	75-OTS	TO DETERMINE THE	PRESSURE	0.010 /	ROCKWELL/	R. H. SPANGLER,J.	DMS-DR-2511
11TWT -	LUME TESTS OF THE		EFFECTS OF GASEOU		0.6 -	ARC -	G. R. COLLETTE/R	VOLUME 02
561-1 /	0.010-SCALE MODE		S AND SOLID PLUME		1.4	11-FOOT TRANSO	I	OCT., 1983
IA300	L (75-OTS) IN THE		S ON THE FOREBODY			NIC WIND TUNNE	S. R. HOULIHAN	
CR-167,670	NASA/AMES RESEAR		PRESSURE DISTRIB			L (UNITARY)	B. J. BURST	
	CH CENTER 11X11-F		UTION OF THE SPAC				-DMS	
	OOT WIND TUNNEL (		E SHUTTLE INTEGRA					
	IA300)		TED VEHICLE					
ARC -	RESULTS OF COLD P	75-OTS	TO DETERMINE THE	PRESSURE	0.010 /	ROCKWELL/	R. H. SPANGLER,J.	DMS-DR-2511
11TWT -	LUME TESTS OF THE		EFFECTS OF GASEOU		0.6-	ARC -	G. R. COLLETTE/R	VOLUME 03
561-1 /	0.010-SCALE MODE		S AND SOLID PLUME		1.4	11-FOOT TRANSO	I	OCT., 1983
IA300	L (75-OTS) IN THE		S ON THE FOREBODY			NIC WIND TUNNE	S. R. HOULIHAN	
CR-167,671	NASA/AMES RESEAR		PRESSURE DISTRIB			L (UNITARY)	B. J. BURST	
	CH CENTER 11X11-F		UTION OF THE SPAC				-DMS	
	OOT WIND TUNNEL (		E SHUTTLE INTEGRA					
	IA300)		TED VEHICLE					
ARC -	BOUNDRY LAYER TES	122-O	TO OBTAIN DATA FO	PRESSURE	0.6-	ROCKWELL/	B. A. MARSHALL,R.	DMS-DR-2512
22TWT -	TS OF THE SPACE S		R USE IN DETERMIN		0.9	ARC -	B. KINGSFIELD/RI	SEPT., 1983
542-1 /	HUTTLE AFRSI MATE		ING THE SKIN FRIC			2-FOOT BY 2-FO	S. R. HOULIHAN	
OA308	RIAL IN THE NASA/		TION DRAG DUE TO			OT TRANSONIC W	G. R. LUTZ	
CR-167,667	AMES RESEARCH CEN		AFRSI IMPLEMENTAT			IND TUNNEL	-DMS	
	TER 2X2-FOOT TRAN		ION ON THE SPACE					
	SONIC WIND TUNNEL		SHUTTLE VEHICLE					
	(OA308)							

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AEDC - PWT16T - TF645 / OS313 CR-167,678	SPACE SHUTTLE AFR SI GAP FIX TEST O S313 IN THE AEDC/ USAF 16T TRANSONI C PROPULSION WIND TUNNEL USING MOD EL 129-O INSTALLE D IN THE MODEL 96 -O TEST FIXTURE	MODEL 129-O	TO EVALUATE AFRSI JOINT GAPS ON A PANEL TO WHICH AF RSI WAS APPLIED I N ACCORDANCE TO O V 099 OMS POD SPE CS, & TO DETERMIN E THE PERFORMANCE OF FIVE JOINT-ST ABILIZER DESIGNS UNDER ASCENT LOAD ING CONDITIONS	PRESSURE	O- .74 O	ROCKWELL/ AEDC - TRANSONIC PROP ULSION WIND TU NNEL (PWT-16T)	B. A. MARSHALL/RI R. B. KINGSLAND/R I S. R. HOULIHAN G. R. LUTZ -DMS	DMS-DR-2513 MARCH, 1984
ARC - 11TWT - 562-1/5 / OS305-1/5 CR-167,684	POST-TEST DATA RE PORT FOR THE SPAC E SHUTTLE FULL-SC ALE AFRSI SEQUENC E OF ENVIRONMENTS TEST (OS305-1 TO 5) IN THE NASA/A MES RESEARCH CENT ER 11X11-FOOT WIN D TUNNEL	MODEL 125-0, AFRS I BONDED TO SUPPO RT PLATE	EXPOSE THE AFRSI TO SIMULATED ASCE NT AIRLOADS ENVIR ONMENT AND SUPPOR T AFRSI CERTIFICA TION	PRESSURE	1.0 / 0.55- 0.88	ROCKWELL/ ARC - 11-FOOT TRANSO NIC WIND TUNNE L (UNITARY)	R.B.KINGSLAND, B. A.MARSHALL/ROCKWE LL D. E. POUCHER J. L. GLYNN -DMS	DMS-DR-2515 APRIL, 1984

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CF4 - 220-237 / 20HT6 - 456 / LA53 LA54				FORCE	5.8 - 6.0	LARC / LARC - FREON TUNNEL 20-INCH HYPERSONIC TUNNEL (MACH 6)	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2213
LARC - V/STOL - 114 / OA155	RESULTS OF SUBSONIC STUDIES USING AN 0.030 SCALE ORBITER CONFIGURATION 140A/B MODEL (47-0) IN THE NASA/LARC V/STOL TRANSITION RESEARCH WIND TUNNEL (OA155)	VEHICLE 5 ORBITER	TO OBTAIN PRESSURE DISTRIBUTIONS AND FORCES AND MOMENTS FOR THE ORBITER IN THE APPROACH AND LANDING CONFIGURATIONS WITH AND WITHOUT THE INFLUENCE OF A GROUND PLANE. VERTICAL TAIL LOADS AND ELEVON, BODY FLAP, AND RUDDER HINGE MOMENTS WERE ALSO OBTIANED.	PRESSURE FORCE	0.030 / 0.2 - 0.2	ROCKWELL/ LARC - V/STOL TRANSITION RESEARCH WIND TUNNEL	J.J.DAILEDA/RI J.MARROQUIN/RI S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2237
LARC - 22HT - 439 / LA68			STING EFFECTS; BALANCE SENSITIVITIES	FORCE	19.1 - 20.36	LARC / LARC - 22-INCH HELIUM TUNNEL	BILL WOODS/LARC J. E. VAUGHN -DMS	DMS-DR-2256
LARC - 8TPT - 715 / 8TPT - 776 / LA60B LA60C			DETERMINE EFFECTS OF SEVERAL WING FILLET CONFIGURATIONS	FORCE	0.3 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL 8-FOOT TRANSONIC PRESSURE TUNNEL	J. E. VAUGHN -DMS	DMS-DR-2260

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 166-1 / OS13			TO VERIFY INTEGRITY OF THE ORBITER FRSI MATERIAL IN A PANEL FLUTTER ENVIRONMENT	STRUCT-DYN	1.55 - 2.5	ROCKWELL/ ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R.S. CROWDER/RI S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2287
NSWC - 8A - 1275 / LA79				FORCE	.0040 /	LARC / NSWC - TUNNEL 8A	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2291
ARC - 22TWT - 167-1 / OS32				STRUCT-DYN		ROCKWELL/ ARC - 2-FOOT BY 2-FOOT TRANSONIC WIND TUNNEL		DMS-DR-2339
LARC - 8TPT - 764 / LA92				FORCE		LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL		DMS-DR-2362
LARC - 8TPT - 776 / LA106				FORCE		LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2379
LARC - CFHT - 130 / LA93				PRESSURE		LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	J. E. VAUGHN J. L. GLYNN -DMS	DMS-DR-2383
LTV - HSWT - 611 / LA109				FORCE		LARC / LTV - HIGH SPEED WIND TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2394

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 804 / LA116				FORCE		LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2411
LARC - 8TPT - 813 / LA117				FORCE		LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2425
LARC - LTPT - 255 / LA127				FORCE		LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2441
LTV - HSWT - 646 / LA128				FORCE		LARC / LTV - HIGH SPEED WIND TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2442
LARC - UPWT - 1270 / LA122				FORCE		LARC / LARC - UNITARY PLAN WIND TUNNEL	J. E. VAUGHN B. J. BURST -DMS	DMS-DR-2446
ARC - 11TWT - 436-2 / OS52				PRESSURE		ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	S. R. HOULIHAN B. J. BURST -DMS	DMS-DR-2447

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC -	RESULTS OF THE AF	AFRSI SSV PRESSUR	AFRSI DETAILED EN	PRESSURE	0.035 /	ROCKWELL/	S.C.CARRION/ROCKW	DMS-DR-2459
11TWT -	RSI DETAILED-ENVI	E-LOADS MODEL 84-	VIRONMENT		0.60-	ARC -	ELL	VOLUME 01
587-1 /	RONMENT TEST OF T	O			3.50	11-FOOT TRANSO	D. E. POUCHER	
OA310A	HE 0.035-SCALE SS					NIC WIND TUNNE	B. J. BURST	
OA310B	V PRESSURE-LOADS					L (UNITARY)	-DMS	
OA310C	MODEL 84-0 IN THE							
CR-167,685	AMES 11X11 FT. T							
	WT AND THE LEWIS							
	8X6 FT. AND 10X10							
	FT. SWT (OA310A,							
	B,C)							
LERC -	RESULTS OF THE AF	AFRSI SSV PRESSUR	AFRSI DETAILED EN	PRESSURE	0.035 /	ROCKWELL/	S.C.CARRION/ROCKW	DMS-DR-2459
86SWT -	RSI DETAILED-ENVI	E-LOADS MODEL 84-	VIRONMENT		0.60-	ROCKWELL/	ELL	VOLUME 02
046 /	RONMENT TEST OF T	O			3.50	LERC -	D. E. POUCHER	
LERC -	HE 0.035-SCALE SS					8 BY 6-FOOT SU	B. J. BURST	
10SWT -	V PRESSURE-LOADS					PERSONIC WIND	-DMS	
074 /	MODEL 84-0 IN THE					TUNNEL		
OA310A	AMES 11X11 FT. T					LERC -		
OA310B	WT AND THE LEWIS					10 BY 10-FOOT		
OA310C	8X6 FT. AND 10X10					SUPERSONIC WIN		
CR-167,686	FT. SWT (OA310A,					D TUNNEL		
	B,C)							
MSFC -			DETERMINE CAUSE A	FORCE	0.004 /	MSFC /	BILL BRADDOCK/LMS	DMS-DR-2460
14TWT -			ND AERO FIX TO EL		0.6 -	MSFC -	C-HUNTSVILLE	
655 /			IMINATE ORBITER R		1.25	14-INCH TRISON	J. L. GLYNN	
FA27			OLLING MOMENT			IC WIND TUNNEL	J. E. VAUGHN	
							-DMS	

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 411-1,2,3/ 97SWT - IA190A IA190B	RESULTS OF EXPERIMENTAL INVESTIGATIONS TO DETERMINE EXTERNAL TANK PROTUBERANCE LOADS USING A 0.03 SCALE MODEL OF THE SPACE SHUTTLE LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE NASA/ARC UNITARY PLAN WIND TUNNEL (IA190A/B)		TO OBTAIN FORCE AND PRESSURE LOADS ON ET PROTUBERANCES AND TO DETERMINE LOCAL FLOW VELOCITIES ON ET UPPER SURFACE NEAR CENTERLINE	FORCE PRESSURE	0.60 - 2.5	ROCKWELL/ ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	A.R.KANEVSKY/RI J. E. VAUGHN H. C. ZIMMERLE -DMS	DMS-DR-2476
MSFC - 14TWT - 658 / IA600				FORCE		ROCKWELL/ MSFC - 14-INCH TRISONIC WIND TUNNEL	S. R. HOULIHAN J. E. VAUGHN -DMS	DMS-DR-2479
LTV - HSWT - 742 / LA144		OV102-SSME ON OV102-SSME OFF OV102-SSME ON VT OFF		FORCE	0.02/ 2.5- 4.75	LARC / LTV - HIGH SPEED WIND TUNNEL	J. E. VAUGHN G. W. KLUG -DMS	DMS-DR-2484
AEDC - PWT16T - 594 / MA34		ORBITER FOREBODY	TO OBTAIN CALIBRATION DATA FOR THE FLUSH-ORIFICE SHUTTLE ENTRY AIR DATA SYSTEM IN THE SUBSONIC/TRANSONIC RANGE	FORCE	0.25 - 1.50	ROCKWELL/ AEDC - TRANSONIC PROPULSION WIND TUNNEL (PWT-16T)	S. R. HOULIHAN H. C. ZIMMERLE -DMS	DMS-DR-2497

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TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 692 / FA301 CR-167,687	RESULTS OF THE ORBITER WING AND ELEVON LOAD ALLEVIATION TEST IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE INTEGRATED VEHICLE (FA301)	LAUNCH VEHICLE WITH INTERSTAGE FAIRINGS	WING LOAD RELIEF INVESTIGATIONS	FORCE	0.004 / 0.60-1.46	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	R.C.ARMSTRONG/MSFC - D. E. POUCHER J. L. GLYNN -DMS	DMS-DR-2514
ARC - 11TWT - 562-2/5 / OS311 CR-167,688	SPACE SHUTTLE AFRSI FULL-SCALE APPLICATION DESIGN ISSUES TEST OS311 IN THE AMES RESEARCH CENTER (ARC) 11X11-FT WIND TUNNEL USING MODEL 127-O INSTALLED IN THE 96-O TEST FIXTURE	MODEL 127-O, AFRSI BONDED TO SUPPORT PLATE	OBTAIN DATA TO ASSIST IN SELECTION OF AFRSI INSTALLATION DESIGNS AND THE DETERMINATION OF MR/DR CRITERIA	PRESSURE	1.0 / 0.55-0.88	ROCKWELL/ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	R.B.KINGSLAND/ROCKWELL - D. E. POUCHER J. L. GLYNN -DMS	DMS-DR-2516
ARC - 97SWT - 582-1 / OS314A/B/C CR-167,689	SPACE SHUTTLE AFRSI OMS POD ENVIRONMENT TEST USING MODEL 81-O TEST FIXTURE IN THE AMES RESEARCH CENTER 9X7-FOOT SUPERSONIC WIND TUNNEL (OS314A/B/C)	AFRSI BLANKET PANELS FORM-FITTED OVER A TWO-DIMENSIONAL MODEL OF AN OMS POD CROSS-SECTION	INVESTIGATE CAUSES OF AFRSI DAMAGE ON OMS PODS DURING STS-6	PRESSURE	0.33 / 1.8-2.5	ROCKWELL/ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	J.G.R.COLLETTE, R.B.KINGSLAND, C.L.BERTHOLD/ROCKWELL - D. E. POUCHER J. L. GLYNN -DMS	DMS-DR-2517

Table 6-1

Space Shuttle Facility Wind Tunnel Summary

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
KT				LA126	2436,V-06	AUGUST,	1978
VU	AEDC	HWTB	B7A	OH60	2356	MAY,	1977
VB	AEDC	HWTB	B8A	OH74	2263	MARCH,	1976
VC	AEDC	HWTB	C4A	IA114	2272,V-01	JUNE,	1977
VC	AEDC	HWTB	C4A	IA114	2272,V-02	JUNE,	1977
VJ	AEDC	HWTB	D8A	OA169	2320,V-01	FEB.,	1978
VJ	AEDC	HWTB	D8A	OA169	2320,V-02	FEB.,	1978
VJ	AEDC	HWTB	D8A	OA169	2320,V-03	FEB.,	1978
VK	AEDC	HWTB	D9A	IA22	2327,V-01	JULY,	1977
VK	AEDC	HWTB	D9A	IA22	2327,V-02	AUGUST,	1977
VK	AEDC	HWTB	D9A	IA22	2327,V-03	AUGUST,	1977
VG	AEDC	HWTB	E3A	OH75	2303	MAY,	1976
VS	AEDC	HWTB	J7A	OH98	2340,V-01	SEPT.,	1980
VS	AEDC	HWTB	J7A	OH98	2340,V-02	SEPT.,	1980
4S	AEDC	HWTB	P4A	OH90A/MA29	2451	MAY,	1979
4D	AEDC	HWTB	TOA	IA148	2384,V-01	SEPT.,	1978
4D	AEDC	HWTB	TOA	IA148	2384,V-02	SEPT.,	1978
TM	AEDC	HWTB	VA289	OH3A	2100	JUNE,	1974
TT	AEDC	HWTB	VA352	OH4A	2154	JAN.,	1975
TZ	AEDC	HWTB	VA352	OH4C	2225	MARCH,	1975

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
TK	AEDC	HWTB	VA352	OH4B	2099,V-01	FEB.,	1975
TK	AEDC	HWTB	VA352	OH4B	2099,V-02	FEB.,	1975
TK	AEDC	HWTB	VA352	OH4B	2099,V-03	FEB.,	1975
V5	AEDC	HWTB	VA353	OH9	2251	JUNE,	1975
TS	AEDC	HWTB	VA354	OH11	2141	JUNE,	1975
V3	AEDC	HWTB	VA422	IA17B	2230	FEB.,	1975
TR	AEDC	HWTB	VA422	IA17A	2156,V-01	AUGUST,	1975
TR	AEDC	HWTB	VA422	IA17A	2156,V-02	AUGUST,	1975
TR	AEDC	HWTB	VA422	IA17A	2156,V-03	AUGUST,	1975
TN	AEDC	HWTB	VA474	OA77	2134,R-01	JAN.,	1975
VE	AEDC	HWTB	VA526/21BA	OH50A	2285	APRIL,	1976
VM	AEDC	HWTB	V41B-E9A	OH69	2321,V-01	AUGUST,	1978
VM	AEDC	HWTB	V41B-E9A	OH69	2321,V-02	AUGUST,	1978
4Z	AEDC	HWTB	V41B-G9	OH109	2490,V-01	JULY,	1982
4Z	AEDC	HWTB	V41B-G9	OH109	2490,V-02	JULY,	1982
4Z	AEDC	HWTB	V41B-G9	OH109	2490,V-03	JULY,	1982
T1	AEDC	HWTB	V41B-HO	OA258	2491,V-01	SEPT.,	1983
T1	AEDC	HWTB	V41B-HO	OA258	2491,V-02	SEPT.,	1983
T1	AEDC	HWTB	V41B-HO	OA258	2491,V-03	SEPT.,	1983
T1	AEDC	HWTB	V41B-HO	OA258	2491,V-04	SEPT.,	1983
4A	AEDC	HWTB	V41B-K3A	OH57A/B	2367	MAY,	1979

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SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
HT	AEDC	HWTB	V41B-R3A	0H56	2410	JUNE,	1979
4E	AEDC	HWTB	V41B-R4A	0H84A	2388	MARCH,	1984
4H	AEDC	HWTB	V41B-V2A	0H103A	2420	NOV.,	1982
4M	AEDC	HWTB	V41B-V2C	0H103B	2427	JAN.,	1984
T6	AEDC	HWTB	V41B-1C	0H111	2496,V-01	NOV.,	1982
T6	AEDC	HWTB	V41B-1C	0H111	2496,V-02	NOV.,	1982
T6	AEDC	HWTB	V41B-1C	0H111	2496,V-03	NOV.,	1982
4U	AEDC	HWTB	V41B-67	0H84B	2464,V-01	AUGUST,	1981
4U	AEDC	HWTB	V41B-67	0H84B	2464,V-02	AUGUST,	1981
4U	AEDC	HWTB	V41B-67	0H84B	2464,V-03	AUGUST,	1981
4U	AEDC	HWTB	V41B-67	0H84B	2464,V-04	AUGUST,	1981
4V	AEDC	HWTB	V41B-67	0H105	2464,V-05	AUGUST,	1981
T3	AEDC	HWTB	V42B-/V43B	0A259	2493,V-01	AUGUST,	1983
T3	AEDC	HWTB	V42B-/V43B	0A259	2493,V-02	AUGUST,	1983
T2	AEDC	HWTB	V43B-17	0H107	2492	JUNE,	1982
4T	AEDC	HWTB	41B-65	0H102A	2455	JUNE,	1979
VY	AEDC	HWTB	41B-83A	0H25B	23[illegible]	MAY,	1977
TP	AEDC	HWTB	48A	LA42	2132	MAY,	1975
V0	AEDC	HWTB	524	0H52	2330	OCT.,	1976
V1	AEDC	HWTB	57A	0H49B	2222,V-01	OCT.,	1976
V1	AEDC	HWTB	57A	0H49B	2222,V-02	NOV.,	1976

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SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
VL	AEDC	HWTB	58A	OH50B	2358	JUNE,	1977
TW	AEDC	HWTB	71A	OA79	2196	MAY,	1975
V9	AEDC	HWTB	74A	OH39	2241,V-01	JULY,	1980
V9	AEDC	HWTB	74A	OH39	2241,V-02	JULY,	1980
V9	AEDC	HWTB	74A	OH39	2241,V-03	JULY,	1980
V9	AEDC	HWTB	74A	OH39	2241,V-04	JULY,	1980
VH	AEDC	HWTB	82A	OH54A	2301	MAY,	1976
VM	AEDC	HWTB	82A	OH54B	2342	JUNE,	1977
V6	AEDC	HWTB	83A	OH25A	2252	JULY,	1975
TX	AEDC	HWTF	VA291	FH10	[illegible]	OCT.,	1974
TO	AEDC	HWTF	VA489	OA81	2152,R-01	JAN.,	1976
TY	AEDC	HWTF	25A	TH1F	2218	SEPT.,	1977
VA	AEDC	HWTF	28A	OA160	2247	JAN.,	1976
7T	AEDC	PWT16T	TF-551	OS46A-G	2505	AUGUST,	1982
T5	AEDC	PWT16T	TF-556	OS49	2483,V-01	JUNE,	1982
T5	AEDC	PWT16T	TF-556	OS49	2483,V-02	JUNE,	1982
T8	AEDC	PWT16T	TF-608	OS56	2489	JUNE,	1982
A3	AEDC	PWT16T	TF645	OS313	2513	MARCH,	1984
VR	AEDC	PWT16T	431	OA232	2414,V-01	MAY,	1980

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
VR	AEDC	PWT16T	431	OA232	2414,V-02	MAY,	1980
4B	AEDC	PWT16T	470	IA105A	2398,V-01	NOV.,	1981
4C	AEDC	PWT16T	470	IA156A	2403,V-01	JAN.,	1981
4B	AEDC	PWT16T	470	IA105A	2398,V-02	NOV.,	1981
4C	AEDC	PWT16T	470	IA156A	2403,V-02	JAN.,	1981
4B	AEDC	PWT16T	470	IA105A	2398,V-03	NOV.,	1981
4C	AEDC	PWT16T	470	IA156A	2403,V-03	JAN.,	1981
4R	AEDC	PWT16T	505	IA132	2449	FEB.,	1981
4N	AEDC	PWT16T	507	OA129	2434	DEC.,	1979
4P	AEDC	PWT16T	517	IA182	2439	NOV.,	1983
4Q	AEDC	PWT16T	519	IA183	2444,V-01	APRIL,	1981
4Q	AEDC	PWT16T	519	IA183	2444,V-02	APRIL,	1981
4Y	AEDC	PWT16T	572	OA253	2486,V-01	OCT.,	1982
4Y	AEDC	PWT16T	572	OA253	2486,V-02	OCT.,	1982
T4	AEDC	PWT16T	594	MA34	2497	IN PROCESS	
VP	AEDC	PWT4T	E3A	SA16F	2334	NOV.,	1976
V8	AEDC	SWTA	A3A	IA111	2242,V-01	MARCH,	1976
V8	AEDC	SWTA	A3A	IA111	2242,V-02	MARCH,	1976
V7	AEDC	SWTA	A4A	IH41A	2240	APRIL,	1977

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
VF	AEDC	SWTA	A4A	IH41B	2295,V-01	SEPT.,	1977
VF	AEDC	SWTA	A4A	IH41B	2295,V-02	SEPT.,	1977
VF	AEDC	SWTA	A4A	IH41B	2295,V-03	SEPT.,	1977
VF	AEDC	SWTA	A4A	IH41B	2295,V-04	OCT.,	1977
VF	AEDC	SWTA	A4A	IH41B	2295,V-05	OCT.,	1977
VD	AEDC	SWTA	E1A	FH13	2276	JUNE,	1977
VI	AEDC	SWTA	J3A	IH47	2312,V-01	JUNE,	1977
VI	AEDC	SWTA	J3A	IH47	2312,V-02	JULY,	1977
VT	AEDC	SWTA	K1A	IA40	2293	DEC.,	1977
VQ	AEDC	SWTA	K1A	IA142	2346,V-01	JAN.,	1978
VQ	AEDC	SWTA	K1A	IA142	2346,V-02	JAN.,	1978
VQ	AEDC	SWTA	K1A	IA142	2346,V-03	JAN.,	1978
VX	AEDC	SWTA	P8A	IA143	2354,V-01	FEB.,	1978
VX	AEDC	SWTA	P8A	IA143	2354,V-02	FEB.,	1978
VX	AEDC	SWTA	P8A	IA143	2354,V-03	FEB.,	1978
VX	AEDC	SWTA	P8A	IA143	2354,V-04	FEB.,	1978
TJ	AEDC	SWTA	VA323	IA13	2062,V-01	AUGUST,	1975
TJ	AEDC	SWTA	VA323	IA13	2062,V-02	AUGUST,	1975
TJ	AEDC	SWTA	VA323	IA13	2062,V-03	AUGUST,	1975
TL	AEDC	SWTA	VA422	IA57	2112	NOV.,	1974
TQ	AEDC	SWTA	VA422	IA61A	2143	FEB.,	1976

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
V4	AEDC	SWTA	VA422/21AA	IA61B	2226	FEB.,	1975
VW	AEDC	SWTA	VA525/218A	OH49A	2355	JUNE,	1977
4J	AEDC	SWTA	V41A-P5A	OA208/209	2415,V-02	JAN.,	1980
VZ	AEDC	SWTA	V41A-R2A	IH72	2372	NOV.,	1981
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-01	APRIL,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-02	APRIL,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-03	APRIL,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-04	APRIL,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-05	MAY,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-06	MAY,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-07	MAY,	1980
4L	AEDC	SWTA	V41A-W5	IH85	2431,V-08	APRIL,	1980
4K	AEDC	SWTA	V41A-20	FH15	2422	APRIL,	1979
4W	AEDC	SWTA	V41A-67	IH102	2464,V-06	AUGUST,	1981
4I	AEDC	SWTA	V41B-P5A	OA208/209	2415,V-01	JAN.,	1980
4X	AEDC	SWTA	V41B-65	OH400	2472	MAY,	1980
TU	AEDC	SWTA	60A	IA87	2192,V-01	JULY,	1975
TU	AEDC	SWTA	60A	IA87	2192,V-02	JULY,	1975
TV	AEDC	SWTA	71A	OA115	2198	JULY,	1975
NF	ARC	11TWT			2255	JULY,	1975

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SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
EU	ARC	11TWT	014	IA19	2170,V-01	JUNE,	1975
EU	ARC	11TWT	014	IA19	2170,V-02	JUNE,	1975
EU	ARC	11TWT	014	IA19	2170,V-03	JUNE,	1975
ET	ARC	11TWT	019	IA81A	2169,V-01	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-02	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-03	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-04	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-05	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-06	JAN.,	1976
ET	ARC	11TWT	019	IA81A	2169,V-07	JAN.,	1976
E4	ARC	11TWT	023	IA80	2212,V-01	OCT.,	1976
E4	ARC	11TWT	023	IA80	2212,V-02	OCT.,	1976
E4	ARC	11TWT	023	IA80	2212,V-03	OCT.,	1976
E4	ARC	11TWT	023	IA80	2212,V-04	OCT.,	1976
NE	ARC	11TWT	072	IA72	2258,V-01	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-02	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-03	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-04	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-05	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-06	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-07	APRIL,	1977

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
NE	ARC	11TWT	072	IA72	2258,V-08	APRIL,	1977
NE	ARC	11TWT	072	IA72	2258,V-09	APRIL,	1977
E8	ARC	11TWT	073	OA148	2254,V-01	JULY,	1976
E8	ARC	11TWT	073	OA148	2254,V-02	JULY,	1976
E8	ARC	11TWT	073	OA148	2254,V-03	JULY,	1976
E8	ARC	11TWT	073	OA148	2254,V-04	AUGUST,	1976
E8	ARC	11TWT	073	OA148	2254,V-05	AUGUST,	1976
E8	ARC	11TWT	073	OA148	2254,V-06	AUGUST,	1976
E8	ARC	11TWT	073	OA148	2254,V-07	AUGUST,	1976
E8	ARC	11TWT	073	OA148	2254,V-08	AUGUST,	1976
E8	ARC	11TWT	073	OA148	2254,V-09	SEPT.,	1976
E8	ARC	11TWT	073	OA148	2254,V-10	SEPT.,	1976
E8	ARC	11TWT	073	OA148	2254,V-11	SEPT.,	1976
E8	ARC	11TWT	073	OA148	2254,V-12	SEPT.,	1976
E8	ARC	11TWT	073	OA148	2254,V-13	SEPT.,	1976
2K	ARC	11TWT	115	OA149A	2376,V-01	JAN.,	1980
2K	ARC	11TWT	115	OA149A	2376,V-02	JAN.,	1980
2K	ARC	11TWT	115	OA149A	2376,V-03	JAN.,	1980
2F	ARC	11TWT	118-1	OA145A	2380,V-01	DEC.,	1980
2F	ARC	11TWT	118-1	OA145A	2380,V-02	DEC.,	1980
2F	ARC	11TWT	118-1	OA145A	2380,V-03	DEC.,	1980

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
2F	ARC	11TWT	118-1	OA145A	2380,V-04	DEC.,	1980
2F	ARC	11TWT	118-1	OA145A	2380,V-05	DEC.,	1980
2F	ARC	11TWT	118-1	OA145A	2380,V-06	DEC.,	1980
A1	ARC	11TWT	145-1	OS31A	2470	AUGUST,	1983
2A	ARC	11TWT	187-1	OA175	2333,V-01	NOV.,	1977
2A	ARC	11TWT	187-1	OA175	2333,V-02	DEC.,	1977
2A	ARC	11TWT	187-1	OA175	2333,V-03	DEC.,	1977
2B	ARC	11TWT	200-1	LA77	2344,V-01	JAN.,	1980
2B	ARC	11TWT	200-1	LA77	2344,V-02	JAN.,	1980
2E	ARC	11TWT	213-1	LA89	2353	JUNE,	1981
2N	ARC	11TWT	228-1	IA144	2377,V-01	APRIL,	1982
2N	ARC	11TWT	228-1	IA144	2377,V-02	APRIL,	1982
2R	ARC	11TWT	275-1	IA119	2404,V-01	OCT.,	1980
2R	ARC	11TWT	275-1	IA119	2404,V-02	OCT.,	1980
2R	ARC	11TWT	275-1	IA119	2404,V-03	OCT.,	1980
2R	ARC	11TWT	275-1	IA119	2404,V-04	OCT.,	1980
3L	ARC	11TWT	369-1	OS36/37	2458	NOV.,	1983
3O	ARC	11TWT	380-1	OS41	2463	NOV.,	1983
AM	ARC	11TWT	380-1	OS43	2487	OCT.,	1982
3U	ARC	11TWT	411-1,2,3	IA190A	2476	IN PROCESS	
AA	ARC	11TWT	412-1	IA191	2378	MARCH,	1981

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
AC	ARC	11TWT	425	OS50	2485	JUNE,	1982
3X	ARC	11TWT	427-1/427-	OA400	2482,V-01	JAN.,	1981
3X	ARC	11TWT	427-1/427-	OA400	2482,V-02	JAN.,	1981
3X	ARC	11TWT	427-1/427-	OA400	2482,V-03	JAN.,	1981
AB	ARC	11TWT	436-2	OS52	2447	IN PROCESS	
AS	ARC	11TWT	500,07,31	OS60,1,2,3	2506	DEC.,	1982
AP	ARC	11TWT	501-1	OS304A	2501	OCT.,	1982
AL	ARC	11TWT	503-1	OS302A	2469	JUNE,	1982
AU	ARC	11TWT	510-1	MA33A/B	2507	MARCH,	1984
AV	ARC	11TWT	548-1	OS306A/B	2508	JAN.,	1983
AY	ARC	11TWT	548-1	OS309A	2510	DEC.,	1982
AW	ARC	11TWT	549-1	OA307A/B	2509	DEC.,	1982
AZ	ARC	11TWT	561-1	IA300	2511,V-01	OCT.,	1983
AZ	ARC	11TWT	561-1	IA300	2511,V-02	OCT.,	1983
AZ	ARC	11TWT	561-1	IA300	2511,V-03	OCT.,	1983
A7	ARC	11TWT	562-1/5	OS305-1/5	2515	APRIL,	1984
A8	ARC	11TWT	562-2/5	OS311	2516	IN PROCESS	
A2	ARC	11TWT	587-1	OA310A	2459,V-01	IN PROCESS	
BL	ARC	11TWT	686	IA7	2024	AUGUST,	1973
EX	ARC	11TWT	705	OS8A/B	2179	NOV.,	1977
B-	ARC	11TWT	707	IA9A,B,C	2032,V-01	NOV.,	1973

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
B-	ARC	11TWT	707	IA9A,B,C	2032,V-02	NOV.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-03	OCT.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-04	DEC.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-05	DEC.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-06	DEC.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-07	DEC.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-08	DEC.,	1973
B-	ARC	11TWT	707	IA9A,B,C	2032,V-09	JAN.,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-10	JAN.,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-11	JAN.,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-12	JAN.,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-13	MARCH,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-14	MARCH,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-15	MARCH,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-16	APRIL,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-17	APRIL,	1974
B-	ARC	11TWT	707	IA9A,B,C	2032,V-18	MAY,	1974
B2	ARC	11TWT	716	OA22A	2130	MAY,	1975
B1	ARC	11TWT	716	IA14A	2084,V-01	FEB.,	1975
B1	ARC	11TWT	716	IA14A	2084,V-02	MARCH,	1975
B1	ARC	11TWT	716	IA14A	2084,V-03	APRIL,	1975

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
B1	ARC	11TWT	716	IA14A	2084,V-04	APRIL,	1975
B1	ARC	11TWT	716	IA14A	2084,V-05	APRIL,	1975
B1	ARC	11TWT	716	IA14A	2084,V-06	APRIL,	1975
B1	ARC	11TWT	716	IA14A	2084,V-07	APRIL,	1975
B1	ARC	11TWT	716	IA14A	2084,V-08	APRIL,	1975
B1	ARC	11TWT	716	IA14A	2084,V-09	MAY,	1975
B1	ARC	11TWT	716	IA14A	2084,V-10	MAY,	1975
B1	ARC	11TWT	716	IA14A	2084,V-11	MAY,	1975
EJ	ARC	11TWT	747	OA53A	2128,V-01	AUGUST,	1974
EJ	ARC	11TWT	747	OA53A	2128,V-02	AUGUST,	1974
NX	ARC	11,97,87UN	074-1	SA11F	2331,V-01	OCT.,	1981
NX	ARC	11,97,87UN	074-1	SA11F	2331,V-02	OCT.,	1981
E7	ARC	11,97,87UN	094	OA161A/B/C	2245,V-01	SEPT.,	1976
E7	ARC	11,97,87UN	094	OA161A/B/C	2245,V-02	OCT.,	1976
NQ	ARC	11,97,87UN	144-1	IA135A/B/C	2306,V-01	MAY,	1982
NQ	ARC	11,97,87UN	144-1	IA135A/B/C	2306,V-02	MAY,	1982
NQ	ARC	11,97,87UN	144-1	IA135A/B/C	2306,V-03	MAY,	1982
2Y	ARC	11,97,87UN	289-1	OA126A,B,C	2424,V-01	OCT.,	1980
2Y	ARC	11,97,87UN	289-1	OA126A,B,C	2424,V-02	OCT.,	1980
3H	ARC	11,97,87UN	289-1	OA126A,B,C	2424,V-03	OCT.,	1980

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
2S	ARC	11,97,87UN	705-1	IS1A/B/C	2401	JAN.,	1978
NG	ARC	12PT	078	OA159	2265	JAN.,	1976
NC	ARC	12PT	086	LA65	2246	JULY,	1976
NJ	ARC	12PT	135-1	LA66	2281	SEPT.,	1976
NS	ARC	12PT	180-1	OA173	2304	NOV.,	1981
2Q	ARC	12PT	218-1	OA101	2405,V-01	SEPT.,	1978
2Q	ARC	12PT	218-1	OA101	2405,V-02	SEPT.,	1978
2Q	ARC	12PT	218-1	OA101	2405,V-03	SEPT.,	1978
2Q	ARC	12PT	218-1	OA101	2405,V-04	SEPT.,	1978
2Q	ARC	12PT	218-1	OA101	2405,V-05	SEPT.,	1978
2Q	ARC	12PT	218-1	OA101	2405,V-06	OCT.,	1978
E9	ARC	14-TWT	080	CA23A	2243	JAN.,	1976
NH	ARC	14-TWT	120	CA23B	2275,V-01	MAY,	1976
NH	ARC	14-TWT	120	CA23B	2275,V-02	MAY,	1976
NZ	ARC	14-TWT	121	CA13	2332	OCT.,	1977
NY	ARC	14-TWT	143-1	IA137	2316	SEPT.,	1976
NL	ARC	14-TWT	150-1	OA220	2286	OCT.,	1976
BK	ARC	14-TWT	711	IA8	2173	JULY,	1974

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SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
3Y	ARC	22TWT	041,154,11	OS4A	2450	MAY,	1979
2C	ARC	22TWT	167-1	OS32	2339	IN PROCESS	
3T	ARC	22TWT	382-1	OA252	2473,V-01	JAN.,	1983
3T	ARC	22TWT	382-1	OA252	2473,V-02	JAN.,	1983
AE	ARC	22TWT	458	OS300	2488	SEPT.,	1981
AK	ARC	22TWT	467-1	OS301	2500	DEC.,	1981
AX	ARC	22TWT	542-1	OA308	2512	SEPT.,	1983
BI	ARC	3.5HWT	147	OA4	2007	MARCH,	1973
BS	ARC	3.5HWT	157	OA11A	2044	OCT.,	1973
BU	ARC	3.5HWT	158	OH2A	2035	APRIL,	1974
BX	ARC	3.5HWT	160	OA11B	2059	JUNE,	1974
BY	ARC	3.5HWT	163	OA58	2060	JUNE,	1974
B5	ARC	3.5HWT	167	OA73	2082	DEC.,	1973
B6	ARC	3.5HWT	168	OA23	2071	SEPT.,	1974
B7	ARC	3.5HWT	169	IA10	2078	JAN.,	1974
B9	ARC	3.5HWT	171	OH10	2085	JAN.,	1982
B8	ARC	3.5HWT	172	IH15	2098	OCT.,	1974
ED	ARC	3.5HWT	173	OH15	2385	SEPT.,	1977
EG	ARC	3.5HWT	175	IA15	2102	APRIL,	1974
EF	ARC	3.5HWT	176	OA87	2115	MARCH,	1974

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
EH	ARC	3.5HWT	177	OH44	[illegible]	SEPT.,	1977
EI	ARC	3.5HWT	178	IH3	2136,V-01	MAY,	1975
EI	ARC	3.5HWT	178	IH3	2136,V-02	MAY,	1975
EI	ARC	3.5HWT	178	IH3	2136,V-03	MAY,	1975
EI	ARC	3.5HWT	178	IH3	2136,V-04	MARCH,	1976
EM	ARC	3.5HWT	180	IA16	2124	MAY,	1974
ND	ARC	3.5HWT	182	OH43	2250	JULY,	1975
EQ	ARC	3.5HWT	183	OH6	2151	NOV.,	1975
EN	ARC	3.5HWT	185	IH20	2148,V-01	JUNE,	1975
EN	ARC	3.5HWT	185	IH20	2148,V-02	JUNE,	1975
EP	ARC	3.5HWT	187	OA36	2162	NOV.,	1974
EQ	ARC	3.5HWT	190	OA98	2167	AUGUST,	1975
ES	ARC	3.5HWT	191	IA18	2160	MARCH,	1975
EW	ARC	3.5HWT	194	OA83	2177	MARCH,	1975
EV	ARC	3.5HWT	195	IH28	2180,V-01	SEPT.,	1976
EV	ARC	3.5HWT	195	IH28	2180,V-02	SEPT.,	1976
EY	ARC	3.5HWT	196	TA9F	2181	NOV.,	1974
EZ	ARC	3.5HWT	198	OH38	2171,V-01	JAN.,	1976
EZ	ARC	3.5HWT	198	OH38	2171,V-02	JAN.,	1976
EZ	ARC	3.5HWT	198	OH38	2171,V-03	JAN.,	1976
E2	ARC	3.5HWT	199	OH26	2193	OCT.,	1977

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
E3	ARC	3.5HWT	200	IH27	2210	JUNE,	1979
NB	ARC	3.5HWT	211	IH48	2248	APRIL,	1976
NT	ARC	3.5HWT	215	FH14	2313,V-01	MARCH,	1977
NT	ARC	3.5HWT	215	FH14	2313,V-02	MARCH,	1977
NT	ARC	3.5HWT	215	FH14	2313,V-03	MARCH,	1977
NV	ARC	3.5HWT	216	OH53A	2317	JAN.,	1980
2D	ARC	3.5HWT	222	IH68	2357	JUNE,	1983
3Z	ARC	3.5HWT	227	IH100	2418	OCT.,	1978
2O	ARC	3.5HWT	228-1	IH51A	2393,V-01	FEB.,	1984
2O	ARC	3.5HWT	228-1	IH51A	2393,V-02	FEB.,	1984
2O	ARC	3.5HWT	228-1	IH51A	2393,V-03	FEB.,	1984
2O	ARC	3.5HWT	228-1	IH51A	2393,V-04	FEB.,	1984
2P	ARC	3.5HWT	230	IH99	2452	SEPT.,	1982
2V	ARC	3.5HWT	233-1	IH73	2407	SEPT.,	1982
2W	ARC	3.5HWT	234-1	IH90	2412,V-01	DEC.,	1982
2W	ARC	3.5HWT	234-1	IH90	2412,V-02	DEC.,	1982
2X	ARC	3.5HWT	235	OH58	2417	JUNE,	1979
3A	ARC	3.5HWT	237	FH16	2423	JAN.,	1980
3C	ARC	3.5HWT	239	IH51B	2429	APRIL,	1982
3F	ARC	3.5HWT	241	IH51C	2448,V-01	OCT.,	1980
3F	ARC	3.5HWT	241	IH51C	2448,V-02	OCT.,	1980

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
3N	ARC	3.5HWT	244	IH51D	2461	MARCH, 1984
3P	ARC	3.5HWT	245	IH103	2467	AUGUST, 1981
3R	ARC	3.5HWT	247	OH105B	2468	JUNE, 1982
3W	ARC	3.5HWT	250	IH104	2480	AUGUST, 1983
AG	ARC	3.5HWT	253	OH110	2495	OCT., 1981
AH	ARC	3.5HWT	254	OH108	2494	JUNE, 1982
NA	ARC	40SWT	462	OA100	2261,V-01	JULY, 1982
NA	ARC	40SWT	462	OA100	2261,V-02	JULY, 1982
NM	ARC	40SWT	473	OA164	2499	AUGUST, 1981
NO	ARC	40SWT	479	OA174	2302,V-01	MAY, 1982
NO	ARC	40SWT	479	OA174	2302,V-02	MAY, 1982
2M	ARC	40SWT	500	OA237	2375	DEC., 1980
EB	ARC	66SWT	630	IA29	2077,V-01	MAY, 1974
EB	ARC	66SWT	630	IA29	2077,V-02	MAY, 1974
EB	ARC	66SWT	630	OA63	2077,V-03	MAY, 1974
BH	ARC	66SWT	650	OA3	2009	JUNE, 1973
BT	ARC	66SWT	706	OA43	2050	NOV., 1973
ER	ARC	66SWT	709	OA59	2159,V-01	OCT., 1974
ER	ARC	66SWT	709	OA59	2159,V-02	OCT., 1974

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
E5	ARC	87SWT	044	IA82C	2219,V-01	APRIL,	1976
E5	ARC	87SWT	044	IA82C	2219,V-02	APRIL,	1976
2K	ARC	87SWT	115-1	OA149B/C	2370,V-01	APRIL,	1980
2K	ARC	87SWT	115-1	OA149B/C	2370,V-02	APRIL,	1980
2K	ARC	87SWT	115-1	OA149B/C	2370,V-03	MAY,	1980
2H	ARC	87SWT	118-1	OA145C	2389,V-01	JUNE,	1981
2H	ARC	87SWT	118-1	OA145C	2389,V-02	JUNE,	1981
2H	ARC	87SWT	118-1	OA145C	2389,V-03	JUNE,	1981
2I	ARC	87SWT	119	OA221B/C	2360,V-01	DEC.,	1980
2I	ARC	87SWT	119	OA221B/C	2360,V-02	DEC.,	1980
3G	ARC	87SWT	318-1	OA146	2445,V-01	JUNE,	1983
3G	ARC	87SWT	318-1	OA146	2445,V-02	JUNE,	1983
BZ	ARC	87SWT	710	IA12C	2065,V-01	APRIL,	1975
BZ	ARC	87SWT	710	IA120	2065,V-02	APRIL,	1975
BZ	ARC	87SWT	710	IA12C	2065,V-03	APRIL,	1975
EL	ARC	87SWT	747	OA53C	2185	SEPT.,	1974
ET	ARC	97SWT	019	IA81B	2194,V-01	NOV.,	1975
ET	ARC	97SWT	019	IA81B	2194,V-02	DEC.,	1975
ET	ARC	97SWT	019	IA81B	2194,V-03	DEC.,	1975
ET	ARC	97SWT	019	IA81B	2194,V-04	DEC.,	1975

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
ET	ARC	97SWT	019	IA81B	2194,V-05	DEC.,	1975
E6	ARC	97SWT	044	IA82B	2231,V-01	APRIL,	1976
E6	ARC	97SWT	044	IA82B	2231,V-02	APRIL,	1976
E1	ARC	97SWT	052	IA110	2189	MARCH,	1975
NK	ARC	97SWT	113	IS2A/B	2284,V-01	MAY,	1977
NK	ARC	97SWT	113	IS2A/B	2284,V-02	MAY,	1977
2K	ARC	97SWT	115-1	OA149B/C	2370,V-01	APRIL,	1980
2K	ARC	97SWT	115-1	OA149B/C	2370,V-02	APRIL,	1980
2K	ARC	97SWT	115-1	OA149B/C	2370,V-03	MAY,	1980
G2	ARC	97SWT	118-1	OA145B	2364,V-01	FEB.,	1981
G2	ARC	97SWT	118-1	OA145B	2364,V-02	MARCH,	1981
G2	ARC	97SWT	118-1	OA145B	2364,V-03	FEB.,	1981
2I	ARC	97SWT	119-1	OA221B/C	2360,V-01	DEC.,	1980
2I	ARC	97SWT	119-1	OA221B/C	2360,V-02	DEC.,	1980
NN	ARC	97SWT	166-1	OS13	2287	IN PROCESS	
2U	ARC	97SWT	242-1	IA105B	2413,V-01	FEB.,	1982
2U	ARC	97SWT	242-1	IA105B	2413,V-02	FEB.,	1982
3D	ARC	97SWT	246-1	IA138	2438,V-01	FEB.,	1982
3D	ARC	97SWT	246-1	IA138	2438,V-02	FEB.,	1982
3D	ARC	97SWT	246-1	IA138	2438,V-03	FEB.,	1982
2T	ARC	97SWT	272	IA156B	2408,V-01	JULY,	1980

ORIGINAL PAGE IS
OF POOR QUALITY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
2T	ARC	97SWT	272	IA156B	2408,V-02	JULY, 1980
2T	ARC	97SWT	272	IA156B	2408,V-03	JULY, 1980
2Z	ARC	97SWT	282-1	OA251B/C	2421,V-01	DEC., 1980
2Z	ARC	97SWT	282-1	OA251B/C	2421,V-02	DEC., 1980
3E	ARC	97SWT	283-1	IA131B/C	2462,V-01	MARCH, 1983
3E	ARC	97SWT	283-1	IA131B/C	2462,V-02	MARCH, 1983
3K	ARC	97SWT	347-1	IA184	2456,V-01	SEPT., 1980
3K	ARC	97SWT	347-1	IA184	2456,V-02	SEPT., 1980
AJ	ARC	97SWT	464	OS55/57	2465	MARCH, 1984
AQ	ARC	97SWT	501-1	OS304B	2502	AUGUST, 1982
AO	ARC	97SWT	503-1	OS302B	2504	SEPT., 1982
A9	ARC	97SWT	582-1	OS314A/B/C	2517	IN PROCESS
BJ	ARC	97SWT	616	IA2	2013	FEB., 1974
BV	ARC	97SWT	710	IA12B	2048	JULY, 1974
B4	ARC	97SWT	716	OA22B	2131	MAY, 1975
B3	ARC	97SWT	716	IA14B	2129,V-01	MAY, 1975
B3	ARC	97SWT	716	IA14B	2129,V-02	MAY, 1975
EK	ARC	97SWT	747	OA53B	2178	AUGUST, 1974
UQ	CALSPAN	LT	I95-100	IH75	2453	JUNE, 1979

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
UG	CALSPAN	48HST	I73-100	OH12	2164,V-02	JAN.,	1976
UL	CALSPAN	48HST	I81	IH5	2308	OCT.,	1976
UI	CALSPAN	48HST	I84-120	OA93	2238	NOV.,	1976
UH	CALSPAN	48HST	I84-220	OA113	2234	JULY,	1975
UJ	CALSPAN	48HST	I85-131	IH33	2249	JUNE,	1979
UM	CALSPAN	48HST	I89	IH43	2319	JUNE,	1979
UG	CALSPAN	48HST	173-100	OH12	2164,V-01	JAN.,	1976
UG	CALSPAN	48HST	173-100	OH12	2164,V-03	DEC.,	1975
UF	CALSPAN	8TWT	T14-053	IA36	2064,V-01	DEC.,	1975
UF	CALSPAN	8TWT	T14-053	IA36	2064,V-02	DEC.,	1975
UK	CALSPAN	8TWT	T18-103	LA70	2269	SEPT.,	1976
UN	CALSPAN	8TWT	T18-111	LA82	2374	OCT.,	1982
UO	CALSPAN	96HST	131	OH66	2359	MARCH,	1978
GN	JSC		56-A-76	OH78	2371	MAY,	1978
5A	JSC		61-A-78	OH79	2443	JUNE,	1979
PX	LARC	CFHT	100	LA25	2126	CANCELLED	
QI	LARC	CFHT	101	OA85	2113	OCT.,	1974

ORIGINAL PAGE IS OF POOR QUALITY

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
QU	LARC	CFHT	102	LA35	2127	JULY, 1974
HH	LARC	CFHT	104	LA47	2191	JULY, 1975
QQ	LARC	CFHT	105	LA34	2328	AUGUST, 1976
QK	LARC	CFHT	107	IA58	2133	JULY, 1974
H1	LARC	CFHT	108	IA60	2137,V-01,R-01	SEPT., 1974
H2	LARC	CFHT	109	OA105	2137,V-02	JULY, 1974
QJ	LARC	CFHT	110	OA90	2149	AUGUST, 1975
HD	LARC	CFHT	112	OH51	2368	APRIL, 1977
HL	LARC	CFHT	113	OA82	2195	FEB., 1975
HX	LARC	CFHT	114	LA57	2454,V-03	APRIL, 1979
JA	LARC	CFHT	118	MA22	2267,V-01	JUNE, 1976
JA	LARC	CFHT	118	MA22	2267,V-02	JUNE, 1976
JA	LARC	CFHT	118	MA22	2267,V-03	JUNE, 1976
JA	LARC	CFHT	118	MA22	2267,V-04	JUNE, 1976
K2	LARC	CFHT	130	LA93	2383	IN PROCESS
OZ	LARC	CFHT	85	LA3	2031	JUNE, 1973
OT	LARC	CFHT	89	MA4	2008	JAN., 1973
OT	LARC	CFHT	89	MA4	2008,R-01	MAY, 1973
PD	LARC	CFHT	96	LA11	2066	NOV., 1973
QO	LARC	CFHT	97	LA32	2168	MAY, 1974
QN	LARC	CFHT	98	LA31	2047	FEB., 1974

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
PF	LARC	CFHT	99	LA13	2135	CANCELLED
QS	LARC	CF4	121-137	OH45	2109	JAN., 1976
HO	LARC	CF4	220-237	LA53	2213	IN PROCESS
J5	LARC	CF4	267-268	LA78	2311	AUGUST, 1976
QM	LARC	CF4	97-118	IH18	2110	JAN., 1976
QE	LARC	HNT	28	IH19	2157	DEC., 1975
QD	LARC	HNT	30-31	OA89	2214	APRIL, 1975
HW	LARC	LARC	699	LA56	2224	MARCH, 1978
P7	LARC	LTPT	130/135	LA9	2056	NOV., 1973
PP	LARC	LTPT	138	OA17	2058	MARCH, 1974
PU	LARC	LTPT	141	LA23	2070	OCT., 1973
JS	LARC	LTPT	214	LA36B	2292	IN PROCESS
J2	LARC	LTPT	219	LA61	2278	CANCELLED
JE	LARC	LTPT	227	LA73A	2298	MAY, 1978
JT	LARC	LTPT	228	LA61B	2300	OCT., 1976
JP	LARC	LTPT	229	LA81	2296,V-01	AUGUST, 1976
JP	LARC	LTPT	229	LA81	2296,V-02	AUGUST, 1976

ORIGINAL PAGE IS OF POOR QUALITY

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
KA	LARC	LTPT	246	LA104	2387	CANCELLED
KU	LARC	LTPT	255	LA127	2441	IN PROCESS
HR	LARC	TDT	246	OS7	2363	APRIL, 1977
HR	LARC	TDT	246	OS6	2365	APRIL, 1977
OQ	LARC	UPWT	1002	MA5	2001	NOV., 1972
OV	LARC	UPWT	1007	OA7	2014	MARCH, 1973
P8	LARC	UPWT	1015	LA10	2052	NOV., 1973
P6	LARC	UPWT	1023/1034	LA8A	2054	NOV., 1973
PM	LARC	UPWT	1031	MA7	2069	JAN., 1974
PN	LARC	UPWT	1035	OA44	2057	NOV., 1974
P6	LARC	UPWT	1040	LA8C	2090	MARCH, 1974
PQ	LARC	UPWT	1041	IH16	2166	JULY, 1975
PV	LARC	UPWT	1043	OA70	2073	MARCH, 1974
PG	LARC	UPWT	1046/1049	LA14A	2106	JAN., 1975
Q6	LARC	UPWT	1056/1073	IA42A	2119	AUGUST, 1974
Q2	LARC	UPWT	1057	OA20A	2083	FEB., 1974
Q2	LARC	UPWT	1057	OA20C	2147	MAY, 1974
Q3	LARC	UPWT	1059	IH4	2138,V-01	MAY, 1976
Q3	LARC	UPWT	1059	IH4	2138,V-02	JULY, 1976

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
Q3	LARC	UPWT	1059	IH4	2138,V-03	JULY, 1976
Q3	LARC	UPWT	1059	IH4	2138,V-04	JULY, 1976
Q4	LARC	UPWT	1063	IA35	2108	MAY, 1974
Q7	LARC	UPWT	1071	IH1	2153	OCT., 1977
H5	LARC	UPWT	1074	LA43A/B	2199	OCT., 1976
QY	LARC	UPWT	1075	LA39	2188	IN PROCESS
H9	LARC	UPWT	1087	SA25F	2150	MARCH, 1975
H8	LARC	UPWT	1088/1119	IA44	2206	MAY, 1975
HG	LARC	UPWT	1092//1117	LA46A/B	2228	IN PROCESS
Q2	LARC	UPWT	1097	OA20B	2163	SEPT., 1974
HJ	LARC	UPWT	1101	LA49	2182	APRIL, 1977
HA	LARC	UPWT	1115	SH12F	2216	AUGUST, 1975
J4	LARC	UPWT	1118	LA63A	2270	DEC., 1975
HB	LARC	UPWT	1145	LA45A/B	2297	NOV., 1976
JC	LARC	UPWT	1147 /1132	LA71A/B	2271	FEB., 1977
J4	LARC	UPWT	1151	LA63B	2279	JUNE, 1976
JK	LARC	UPWT	1152	IA94A	2323	FEB., 1977
JH	LARC	UPWT	1173	LA75	2318,V-01	DEC., 1976
JH	LARC	UPWT	1173	LA75	2318,V-02	DEC., 1976
JW	LARC	UPWT	1177	IA94B	2324	FEB., 1977
KD	LARC	UPWT	1194	LA101	2390	JUNE, 1980

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
KR	LARC	UPWT	1207 LG2	LA124	2426	JUNE, 1978
KI	LARC	UPWT	1212	LA110	2396	DEC., 1977
KK	LARC	UPWT	1217	LA114	2399	NOV., 1977
KS	LARC	UPWT	1243	LA125	2432	OCT., 1981
KV	LARC	UPWT	1267	IA180	2457	MARCH, 1981
KX	LARC	UPWT	1270	LA122	2446	IN PROCESS
7A	LARC	UPWT	1299	LA131	2478,V-01	AUGUST, 1980
7A	LARC	UPWT	1299	LA131	2478,V-02	AUGUST, 1980
7A	LARC	UPWT	1299	LA131	2478,V-03	AUGUST, 1980
7B	LARC	UPWT	1311	OA255	2498	AUGUST, 1983
7H	LARC	UPWT	1345 /1390	LA145	2336	MAY, 1983
P1	LARC	UPWT	995 /1014	LA4	2033	JULY, 1973
J7	LARC	V/STOL	114	OA155	2237	IN PROCESS
JF	LARC	V/STOL	129	CA8	2290,V-01	NOV., 1976
JF	LARC	V/STOL	129	CA8	2290,V-02	NOV., 1976
JF	LARC	V/STOL	129	CA8	2290,V-03	NOV., 1976
JU	LARC	16TT	312	OA224	2329	AUGUST, 1981
KP	LARC	16TT	325	OA270B/C	2419	SEPT., 1978
KN	LARC	16TT	326	OA270A	2430,V-01	MARCH, 1981

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
KN	LARC	16TT	326	OA270A	2430,V-02	MARCH, 1981
KN	LARC	16TT	326	OA270A	2430,V-03	MARCH, 1981
KW	LARC	16TT	341	LA132	2471	JAN., 1981
KY	LARC	16TT	342	LA140	2475	AUGUST, 1980
PH	LARC	20HT6	441	LA15	2079	APRIL, 1974
HN	LARC	20HT6	458	LA52	2220	IN PROCESS
KZ	LARC	20HT6	6546	LA141A/B	2477	JUNE, 1981
7E	LARC	20HT6	6559	OA257	2466,V-01	JULY, 1983
7E	LARC	20HT6	6559	OA257	2466,V-02	JULY, 1983
ON	LARC	22HT	405	LA22	2034	JULY, 1973
OS	LARC	22HT	409	MA2	2003	APRIL, 1973
OY	LARC	22HT	411	LA2	2023	JUNE, 1973
P2	LARC	22HT	413	LA5	2036	AUGUST, 1973
PT	LARC	22HT	415	OA72	2092	NOV., 1974
QC	LARC	22HT	422	OA88	2125	SEPT., 1974
H3	LARC	22HT	426	LA40	2176	MAY, 1978
HE	LARC	22HT	431	OA109	2205	MAY, 1975
J8	LARC	22HT	439	LA68	2256	IN PROCESS
JY	LARC	22HT	445	LA85	2343	DEC., 1981

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
PZ	LARC	26TBT	544	OS2	2067	AUGUST, 1973
QT	LARC	26TBT	545	OS1	2094	MARCH, 1974
HF	LARC	26TBT	547	IS4	2146	APRIL, 1974
H7	LARC	60VS	R3289	OA99	2172	OCT., 1974
JN	LARC	710HST	999	LA80	2299	JUNE, 1977
OU	LARC	8TPT	626	LA1	2002	MARCH, 1973
P4	LARC	8TPT	643	LA6	2040	AUGUST, 1973
P5	LARC	8TPT	644	LA7A	2041	OCT., 1973
PC	LARC	8TPT	648	LA17	2046	AUGUST, 1973
PS	LARC	8TPT	655	SA2FA	2088	JULY, 1974
P5	LARC	8TPT	657/660	LA7B	2091	MARCH, 1975
Q1	LARC	8TPT	661	OA25	2089	APRIL, 1974
Q8	LARC	8TPT	667	IA41	2118	AUGUST, 1974
QZ	LARC	8TPT	668	OA106	2120	JAN., 1975
QX	LARC	8TPT	669	LA38A	2121	CANCELLED
QX	LARC	8TPT	676	LA38B	2239	IN PROCESS
H6	LARC	8TPT	677	LA44	2200	OCT., 1976
HI	LARC	8TPT	680	LA48	2184	APRIL, 1977

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
HV	LARC	8TPT	684	LA51	2183	FEB., 1977
HU	LARC	8TPT	686	OA116	2186	JAN., 1975
HM	LARC	8TPT	687	OA102	2229	FEB., 1975
HC	LARC	8TPT	693	IA43	2204	MAY, 1975
HZ	LARC	8TPT	703	LA59	2233	JUNE, 1977
J1	LARC	8TPT	704	LA60A	2259	CANCELLED
J9	LARC	8TPT	714	LA69	2257	SEPT., 1977
KB	LARC	8TPT	715	LA60B	2260	IN PROCESS
J3	LARC	8TPT	717	LA62	2264	DEC., 1975
JD	LARC	8TPT	740	LA72	2309	NOV., 1976
JJ	LARC	8TPT	749	IA93	2326,V-01	JAN ., 1977
JJ	LARC	8TPT	749	IA93	2326,V-02	FEB., 1977
J6	LARC	8TPT	758	LA91	2352	JAN., 1978
K1	LARC	8TPT	764	LA92	2362	IN PROCESS
K9	LARC	8TPT	769	LA99	2373	MARCH, 1981
KC	LARC	8TPT	776	LA106	2379	IN PROCESS
KE	LARC	8TPT	779	IA244	2391	MARCH, 1982
KF	LARC	8TPT	780	LA107	2381	JUNE, 1983
KH	LARC	8TPT	780	LA113	2397	APRIL, 1982
KJ	LARC	8TPT	786	LA111	2395	JAN., 1978
KL	LARC	8TPT	803	LA115	2409	SEPT., 1981

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
KM	LARC	8TPT	804	LA116	2411	IN PROCESS
KQ	LARC	8TPT	813	LA117	2425	IN PROCESS
7C	LARC	8TPT	905,6,7,9	OS53A	2503	JULY, 1982
OX	LARC	8VDHT	3619/3670	OH40	2049	JULY, 1973
P3	LARC	8VDHT	3778//3855	OH41	2075	OCT., 1973
P9	LARC	8VDHT	4060//4079	OH41A	2076	OCT., 1973
PA	LARC	8VDHT	4080/4105	OH42A	2101	JAN., 1974
QR	LARC	8VDHT	4502-4601	OH46	2350	APRIL, 1977
PB	LARC	8VDHT	624	LA16	2043	JUNE, 1973
PO	LARC	8VDHT	644	OH13	2096	AUGUST, 1974
PR	LARC	8VDHT	646/647	IH17	2105	SEPT., 1976
QL	LARC	8VDHT	648	OH14	2117	SEPT., 1976
PK	LARC	8VDHT	653	LA20	2107	MARCH, 1975
GG	LERC	SPF		OH64	2288	NOV., 1977
GE	LERC	10SWT	035	SA6F	2161	FEB., 1975
GF	LERC	10SWT	038	IH34	2282	APRIL, 1978
GK	LERC	10SWT	041	IH39	2435	OCT., 1978
GY	LERC	10SWT	042	OA234	2400	OCT., 1980

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
GZ	LERC	10SWT	044	IH83	2440	FEB.,	1979
GI	LERC	10SWT	045	IH11	2428,V-01	FEB.,	1981
GI	LERC	10SWT	045	IH11	2428,V-02	FEB.,	1981
GI	LERC	10SWT	045	IH11	2428,V-03	FEB.,	1981
GI	LERC	10SWT	045	IH11	2428,V-04	FEB.,	1981
A4	LERC	10SWT	074	OA310C	2459,V-02	IN PROCESS	
A4	LERC	8X6SWT	046	OA310B	2459,V-02	IN PROCESS	
DE	LTV	HSWT	458	IA4	2015,V-01	JULY,	1973
DE	LTV	HSWT	458	IA4	2015,V-02	JULY,	1973
FO	LTV	HSWT	488	OA84	2037	SEPT.,	1974
QB	LTV	HSWT	498	LA28	2280	JAN.,	1976
HY	LTV	HSWT	512	LA58	2215	FEB.,	1976
FD	LTV	HSWT	552	LA67	2266	JULY,	1976
FE	LTV	HSWT	559	CA26	2273,V-01	MAY,	1976
FE	LTV	HSWT	559	CA26	2273,V-02	JUNE,	1976
FE	LTV	HSWT	559	CA26	2273,V-03	JUNE,	1976
FE	LTV	HSWT	559	CA26	2273,V-04	JUNE,	1976
FE	LTV	HSWT	559	CA26	2273,V-05	JUNE,	1976
FI	LTV	HSWT	573	LA76	2305,V-01	JUNE,	1977

ORIGINAL PAGE IS
OF POOR QUALITY

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
FI	LTV	HSWT	573	LA76	2305,V-02	JUNE, 1977
FR	LTV	HSWT	611	LA109	2394	IN PROCESS
KY	LTV	HSWT	646	LA128	2442	IN PROCESS
FS	LTV	HSWT	742	LA144	2484	IN PROCESS
FG	LTV	LSWT	422	MA14	2283	NOV., 1976
DD	LTV	1520SWT	S-081	MA1	2004	NOV., 1972
1E	MSFC	HRWT	033	SA29F	2207	JULY, 1976
1F	MSFC	HRWT	034	SA13F	2277	JULY, 1976
1T	MSFC	HRWT	039	SA31F	2369	FEB., 1982
1U	MSFC	IPBF	027	OH8	2382	NOV., 1977
6C	MSFC	TWT	668	IA603	2416	JUNE, 1981
72	MSFC	14TWT	545	IA1B	2010	MAY, 1973
79	MSFC	14TWT	554	SA1F	2012	APRIL, 1973
76	MSFC	14TWT	555	OA1	2005	NOV., 1972
77	MSFC	14TWT	556	IA1A	2006	DEC., 1972

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
78	MSFC	14TWT	558	MA9F	2011	APRIL,	1973
80	MSFC	14TWT	565	SA3F	2025	MAY,	1973
81	MSFC	14TWT	566	IA31F	2026	SEPT.,	1973
82	MSFC	14TWT	567	IA32FB	2027,V-01	SEPT.,	1975
82	MSFC	14TWT	567	IA32FB	2027,V-02	OCT.,	1975
82	MSFC	14TWT	567	IA32FB	2027,V-03	OCT.,	1975
84	MSFC	14TWT	568	OA47	2029	MAY,	1973
83	MSFC	14TWT	570	IA31FB	2028,V-01	DEC.,	1974
83	MSFC	14TWT	570	IA31FB	2028,V-02	DEC.,	1974
85	MSFC	14TWT	571	IA6A	2039	MARCH,	1974
86	MSFC	14TWT.	572	SA5F	2051	AUGUST,	1973
90	MSFC	14TWT	573	IA31FC	2072	JAN.,	1974
87	MSFC	14TWT	574	OA48	2055,V-01	SEPT.,	1973
87	MSFC	14TWT	574	OA48	2055,V-02	SEPT.,	1973
87	MSFC	14TWT	574	OA48	2055,V-03	NOV.,	1973
91	MSFC	14TWT	578	SA10F	2087	SEPT.,	1974
88	MSFC	14TWT	579/580	IA37	2063	NOV.,	1973
92	MSFC	14TWT	581	OA49	2095	SEPT.,	1974
18	MSFC	14TWT	582	IS6A	2158	OCT.,	1976
99	MSFC	14TWT	583	TA1F	2145	OCT.,	1974
98	MSFC	14TWT	584	IA52	2042	MARCH,	1974

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
93	MSFC	14TWT	585	IA37B	2093	MARCH,	1974
97	MSFC	14TWT	587	FA4	2142	AUGUST,	1974
96	MSFC	14TWT	588	IA53	2123	JAN.,	1975
94	MSFC	14TWT	589	IA62F	2103	APRIL,	1974
95	MSFC	14TWT	590/595	SA26F	2111	NOV.,	1974
1C	MSFC	14TWT	594	IA33	2174,V-01	NOV.,	1975
1C	MSFC	14TWT	594	IA33	2174,V-02	NOV.,	1975
1C	MSFC	14TWT	594	IA33	2174,V-03	NOV.,	1975
1A	MSFC	14TWT	596	TA2F	2165,V-01	DEC.,	1975
1A	MSFC	14TWT	596	TA2F	2165,V-02	DEC.,	1975
1A	MSFC	14TWT	596	TA2F	2165,V-03	DEC.,	1975
1A	MSFC	14TWT	596	TA2F	2165,V-04	JAN.,	1976
1A	MSFC	14TWT	596	TA2F	2165,V-05	DEC.,	1975
1D	MSFC	14TWT	599	OA108	2190	JUNE,	1975
1L	MSFC	14TWT	600	FA14	2274	FEB.,	1976
1I	MSFC	14TWT	603	SA28F	2244	AUGUST,	1977
1H	MSFC	14TWT	604	SA8F	2223	JULY,	1975
1M	MSFC	14TWT	607	OA131	2232	JUNE,	1975
1G	MSFC	14TWT	609	TA3F	2208,V-01	JAN.,	1976
1G	MSFC	14TWT	609	TA3F	2208,V-02	JAN.,	1976
1K	MSFC	14TWT	610	IA71	2227	NOV.,	1975

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
1J	MSFC	14TWT	611	SA30F	2235	NOV.,	1975
1O	MSFC	14TWT	620	SA14FA	2325	NOV.,	1976
1N	MSFC	14TWT	622	IA125	2253	JAN.,	1976
IP	MSFC	14TWT	640	SA14FB	2310,V-01	AUGUST,	1977
IP	MSFC	14TWT	640	SA14FB	2310,V-02	AUGUST,	1977
1Q	MSFC	14TWT	641 /646	IA140A/B	2335	DEC.,	1979
1R	MSFC	14TWT	645	SA21F	2345	OCT.,	1978
1U	MSFC	14TWT	649	IA181	2406	JULY,	1982
1X	MSFC	14TWT	652	FA25	2437	FEB.,	1979
1Y	MSFC	14TWT	655	FA27	2460	IN PROCESS	
1Z	MSFC	14TWT	656	FA28	2474	JULY,	1981
6A	MSFC	14TWT	658	IA600	2479	IN PROCESS	
6B	MSFC	14TWT	665	IA602	2481	JUNE,	1983
A6	MSFC	14TWT	692	FA301	2514	IN PROCESS	
DF	NRLAD	LSWT	689	OA2	2016	APRIL,	1973
DG	NRLAD	LSWT	690	OA5	2017	APRIL,	1973
DH	NRLAD	LSWT	693	IA3	2018	JUNE,	1973
DI	NRLAD	LSWT	694	OA6	2019	JUNE,	1973
DJ	NRLAD	LSWT	696	OA9	2020	JUNE,	1973
DK	NRLAD	LSWT	698	OA10	2022	JUNE,	1973

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SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
DL	NRLAD	LSWT	699	0A45	2021,V-01	NOV.,	1973
DL	NRLAD	LSWT	699	0A45	2021,V-02	OCT.,	1973
DM	NRLAD	LSWT	700	0A14	2030	AUGUST,	1973
DN	NRLAD	LSWT	701	0A16	2038	FEB.,	1974
DO	NRLAD	LSWT	704	0A18	2045	SEPT.,	1973
DP	NRLAD	LSWT	705	0A21B	2053,V-01	DEC.,	1973
DP	NRLAD	LSWT	705	0A21B	2053,V-02	FEB.,	1974
DS	NRLAD	LSWT	708	0A71A	2068	DEC.,	1973
DT	NRLAD	LSWT	709	0A57A	2074	OCT.,	1974
DQ	NRLAD	LSWT	711	0A69	2081,V-01	JAN.,	1976
DQ	NRLAD	LSWT	711	0A69	2081,V-02	JAN.,	1976
DU	NRLAD	LSWT	712	0A71C	2086	FEB.,	1974
DV	NRLAD	LSWT	713	0A57B	2080,V-01	OCT.,	1974
DV	NRLAD	LSWT	713	0A57B	2080,V-02	OCT.,	1974
DW	NRLAD	LSWT	715	0A62A	2097	JUNE,	1974
DX	NRLAD	LSWT	716	0A86	2114	JUNE,	1974
DZ	NRLAD	LSWT	717	0A62B	2104,V-01	JULY,	1974
DX	NRLAD	LSWT	717	0A62B	2104,V-02	AUGUST,	1974
F2	NRLAD	LSWT	719	0A37	2140	SEPT.,	1974
F5	NRLAD	LSWT	721	0A110	2155	SEPT.,	1974
F6	NRLAD	LSWT	724	0A118	2139	OCT.,	1974

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
F8	NRLAD	LSWT	726	OA119A	2187	NOV.,	1974
F9	NRLAD	LSWT	730	OA119B	2203	APRIL,	1975
FA	NRLAD	LSWT	731	OA123	2202	APRIL,	1975
FB	NRLAD	LSWT	736	OA124	2209	JUNE,	1975
FC	NRLAD	LSWT	737	OA143	2221	JULY,	1975
FF	NRLAD	LSWT	751	OA163	2289,V-01	DEC.,	1976
FF	NRLAD	LSWT	751	OA163	2289,V-02	DEC.,	1976
FF	NRLAD	LSWT	751	OA163	2289,V-03	DEC.,	1976
FF	NRLAD	LSWT	751	OA163	2289,V-04	DEC.,	1976
FG	NRLAD	LSWT	752	OA172	2294,V-01	JUNE,	1981
FG	NRLAD	LSWT	752	OA172	2294,V-02	JUNE,	1981
FJ	NRLAD	LSWT	754	OA176	2314	FEB.,	1981
FL	NRLAD	LSWT	757	OA228	2322	NOV.,	1981
FM	NRLAD	LSWT	759	OA236	2337	DEC.,	1979
FN	NRLAD	LSWT	764	OA238	2351	JAN.,	1982
FO	NRLAD	LSWT	766	OA223	2402	NOV.,	1978
FP	NRLAD	LSWT	768	OA163B	2361,V-01	OCT.,	1977
FP	NRLAD	LSWT	768	OA163B	2361,V-02	OCT.,	1977
FQ	NRLAD	LSWT	775	OA250	2392	DEC.,	1977
QR	NRLAD	7TWT	276	OA68	2061	DEC.,	1973

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
DY	NRLAD	7TWT	278	OA91	2116	APRIL, 1974
F3	NRLAD	7TWT	280	IA69	2122	DEC., 1974
F4	NRLAD	7TWT	281	IA68	2144	NOV., 1974
F7	NRLAD	7TWT	282	IA70	2175,V-01	DEC., 1974
F7	NRLAD	7TWT	282	IA70	2175,V-02	DEC., 1974
F7	NRLAD	7TWT	282	IA70	2175,V-03	DEC., 1974
FK	NRLAD	7TWT	297	IA141	2315	AUGUST, 1976
GJ	NSWC		1310	OA171	2433	OCT., 1978
JM	NSWC	8A	1275	LA79	2291	IN PROCESS
GM	TBCA	BTWT	1431	CA5	2211,V-01	SEPT., 1975
GN	TBCA	BTWT	1431	CA20	2217,V-01	JAN., 1976
GM	TBCA	BTWT	1431	CA5	2211,V-02	SEPT., 1975
GN	TBCA	BTWT	1431	CA20	2217,V-02	JAN., 1976
GM	TBCA	BTWT	1431	CA5	2211,V-03	SEPT., 1975
GN	TBCA	BTWT	1431	CA20	2217,V-03	JAN., 1976
GP	TBCA	BTWT	1472	CA6	2262,V-01	NOV., 1976
GP	TBCA	BTWT	1472	CA6	2262,V-02	NOV., 1976
GQ	TBCA	BTWT	1477	CA9	2268,V-01	JUNE, 1979

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE	
GQ	TBCA	BTWT	1477	CA9	2268,V-02	JUNE,	1979
GQ	TBCA	BTWT	1477	CA9	2268,V-03	JUNE,	1979
GQ	TBCA	BTWT	1477	CA9	2268,V-04	JUNE,	1979
GQ	TBCA	BTWT	1477	CA9	2268,V-05	JUNE,	1979
GV	TBCA	BTWT	1490/1493	CS4/5	2341	OCT.,	1976
GR	TBCA	BTWT	1496 /1497	CA14A	2307,V-01	SEPT.,	1981
GR	TBCA	BTWT	1496 /1497	CA14A	2307,V-02	SEPT.,	1981
GL	UW	LSWT	1136	CA3	2201	DEC.,	1981
GO	UW	LSWT	1146	CA11	2236	DEC.,	1975
GU	UW	LSWT	1170	CS3	2338	NOV.,	1976
GS	UW	LSWT	1173	CA15A	2347,V-01	JUNE,	1980
GT	UW	LSWT	1178	CA15B	2348,V-01	JUNE,	1980
GW	UW	LSWT	1184	CA17	2349	NOV.,	1977

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